Opasraportti

UniOGS, Graduate School (2016 - 2017)

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Tutkintorakenteet

Doctor of Philosophy, Machine Design

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 460023J: Research Plan and Seminar, Seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

**Teaching Tasks**

**Doctoral Thesis (vähintään 180 op)**

- 460001J: Mechanical Engineering, thesis, 0 op

**Doctor of Philosophy, History of Ideas and Science**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
**Field Specific Studies (vähintään 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

### Field Specific Studies

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 700122J: Research Plan and Seminar, Seminar (History of Science and Ideas), 1 op

**Doctoral Thesis (enintään 198 op)**

- 702104J: Doctoral dissertation (History of Science and Ideas), 0 op

**Doctor of Philosophy, Archaeology**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

### General- and Transferable Skills Studies

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (vähintään 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

### Field Specific Studies

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
Doctoral Thesis (enintään 198 op)

712004J: Doctoral dissertation (archaeology), 0 op

Doctor of Philosophy, Architecture

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree

Other Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
450023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

450001J: Architecture, thesis, 0 op
Doctor of Philosophy, Automotive & Machine Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Biophysics

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Teaching tasks (enintään 8 op)

Teaching tasks

Doctoral Thesis (vähintään 180 op)

764602J: Ph.D. Thesis in Biophysics, 0 op

Doctor of Philosophy, Health Administration Sciences

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

- Acceptance and Grading of the Thesis, 0 op
- Doctoral Training Plan, 3 op
- Permission to defend the thesis, 0 op
- Pre-examination, 0 op
- Research Group, 0 op
- Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)

- Health Sciences, thesis, 0 op

Doctor of Philosophy, Electronics Materials and Components

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

- First Follow-up Group Meeting, 0 op
- Follow-up Group Reporting and meetings, 1 op
- Introduction to Doctoral Training, 1 op
- Midterm Report of Doctoral Training, 0 op
- Nomination of follow-up group, 0 op
- Scientific Research and Ethics, 2 op
Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

- 520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, English Philology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
682367J: Research Plan and Seminar, Seminar (English), 1 op

**Doctoral Thesis (enintään 198 op)**

692004J: Doctoral dissertation (English), 0 op

**Doctor of Philosophy, Electronics Design**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
520023J: Research Plan and Seminar, Seminar, 1 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Inorganic Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
780614J: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 180 op)
785610J: Ph.D. Thesis in Inorganic Chemistry, 0 op

Doctor of Philosophy, Photonics

Tutkintorakenteen tila: published
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
520023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Physics

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include Teaching tasks to his/her studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
766692J: Research Plan and Seminar, Seminar, 1 op

Teaching tasks (enintään 8 op)

Teaching tasks

Doctoral Thesis (vähintään 180 op)

766602J: Ph.D. Thesis in Physics, 0 op

Doctor of Philosophy, Physical Chemistry

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
Field Specific Studies (vähintään 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
780614J: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)

786610J: Ph.D. Thesis in Physical Chemistry, 0 op

Doctor of Philosophy, Geophysics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include Teaching tasks to his studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
766692J: Research Plan and Seminar, Seminar, 1 op

Teaching tasks (enintään 8 op)

Teaching tasks

Doctoral Thesis (vähintään 180 op)

762602J: Ph.D. Thesis in Geophysics, 0 op

Doctor of Philosophy, Geology and Minerology

Tutkintorakenteen tila: archived
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 5 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in geology may be required to take up to 15 credits of bridging studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (24 - 30 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
771608J: Research Plan and Seminar, Seminar, Geosciences, 1 op
Teaching tasks (enintään 6 op)
When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

Doctoral Thesis (vähintään 180 op)
771603J: Ph. D. thesis, 0 op

Doctor of Philosophy, German Philology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
693460J: Research Plan and Seminar, Seminar (German Language and Culture), 1 op

Doctoral Thesis (enintään 198 op)
696004J: Doctoral Dissertation (German Language and Culture), 0 op

Doctor of Philosophy, History

Tutkintorakenteen tila: published
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
700447J: Research Plan and Seminar, Seminar (History), 1 op

Doctoral Thesis (enintään 198 op)

700442J: Doctoral dissertation (History), 0 op

Doctor of Philosophy, Information Studies

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016
Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
694642J: Research Plan and Seminar, Seminar (Information Studies), 1 op

Doctoral Thesis (enintään 198 op)

850004J: Doctoral dissertation (information Studies), 0 op

Doctor of Philosophy, Educational Psychology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
Field Specific Studies (optional)

Teaching tasks (enintään 6 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

Teaching tasks

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy, Education

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
Field Specific Studies (optional)

Teaching tasks (enintään 6 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

Teaching tasks

Doctoral Thesis (vähintään 160 op)

Doctor of Philosophy, Literature

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
687170J: Research Plan and Seminar, Seminar (Literature), 1 op

Doctoral Thesis (enintään 198 op)
Doctor of Philosophy, Machine Diagnostic

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Cultural Anthropology
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>920017J</td>
<td>First Follow-up Group Meeting</td>
<td>0 op</td>
</tr>
<tr>
<td>920007J</td>
<td>Follow-up Group Reporting and meetings</td>
<td>1 op</td>
</tr>
<tr>
<td>920001J</td>
<td>Introduction to Doctoral Training</td>
<td>1 op</td>
</tr>
<tr>
<td>920014J</td>
<td>Midterm Report of Doctoral Training</td>
<td>0 op</td>
</tr>
<tr>
<td>920022J</td>
<td>Nomination of follow-up group</td>
<td>0 op</td>
</tr>
<tr>
<td>920002J</td>
<td>Scientific Research and Ethics</td>
<td>2 op</td>
</tr>
</tbody>
</table>

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>920020J</td>
<td>Acceptance and Grading of the Thesis</td>
<td>0 op</td>
</tr>
<tr>
<td>920012J</td>
<td>Doctoral Training Plan</td>
<td>3 op</td>
</tr>
<tr>
<td>920019J</td>
<td>Permission to defend the thesis</td>
<td>0 op</td>
</tr>
<tr>
<td>920018J</td>
<td>Pre-examination</td>
<td>0 op</td>
</tr>
<tr>
<td>920021J</td>
<td>Research Group</td>
<td>0 op</td>
</tr>
<tr>
<td>687239J</td>
<td>Research Plan and Seminar, Seminar (Cultural Anthropology)</td>
<td>1 op</td>
</tr>
</tbody>
</table>

Doctoral Thesis (enintään 198 op)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>713104J</td>
<td>Doctoral dissertation (Cultural anthropology)</td>
<td>0 op</td>
</tr>
</tbody>
</table>

Doctor of Philosophy, Logopedics

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>920017J</td>
<td>First Follow-up Group Meeting</td>
<td>0 op</td>
</tr>
<tr>
<td>920007J</td>
<td>Follow-up Group Reporting and meetings</td>
<td>1 op</td>
</tr>
<tr>
<td>920001J</td>
<td>Introduction to Doctoral Training</td>
<td>1 op</td>
</tr>
</tbody>
</table>
Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
694789J: Research Plan and Seminar, Seminar (Logopedics), 1 op

Doctoral Thesis (enintään 198 op)

739004J: Doctoral Thesis (Logopedics), 0 op

Doctor of Philosophy, Geography

Tutkintorakenteen tila: archived
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in geography may be required to take up to 10 credits of bridging studies of history, development and the current debate of geography.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (16 - 21 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
Teaching Tasks (enintään 5 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
793611J: Teaching Tasks, 0 - 5 op

Doctoral Thesis (vähintään 180 op)
793607J: Ph.D. thesis in geography, 0 op

Doctor of Philosophy, Geology of the Soil

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 5 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in geology may be required to take up to 15 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 771605J Teaching tasks to his studies.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (24 - 30 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
Teaching tasks (enintään 6 op)
When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

Doctoral Thesis (vähintään 180 op)
771603J: Ph. D. thesis, 0 op

Doctor of Philosophy, Mathematics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student includes 800702J Teaching tasks to his/her studies.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (31 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
800703J: Research Plan and Seminar, Seminar, 1 - 4 op

Teaching tasks (enintään 5 op)
When the student has passed at least 2 credits of university pedagogical studies
Teaching tasks

**Doctoral Thesis (vähintään 180 op)**

800695J: Doctoral Thesis in Mathematics, 0 op

**Doctor of Philosophy, Music Education**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**General- and Transferable Skills Studies (optional)**

**Field Specific Studies (20 - 26 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
419115J: Research plan and seminar, seminar, 1 op

**Field Specific Studies (optional)**

**Teaching tasks (enintään 6 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).
Teaching tasks

Doctoral Thesis (vähintään 160 op)
419105J: Doctoral thesis, 0 op

Doctor of Philosophy, Organic Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
780614J: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)
787610J: Ph.D. Thesis in Organic Chemistry, 0 op

Doctor of Philosophy, Nordic Philology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
693682J: Research Plan and Seminar, Seminar (Swedish Language), 1 op

Doctoral Thesis (enintään 198 op)

687004J: Doctoral Dissertation (Swedish Language), 0 op

Doctor of Philosophy, Saami Culture

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op
Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
683503J: Research Plan and Seminar, Seminar (Saami Culture), 1 op

Doctoral Thesis (enintään 198 op)
682013J: Doctoral dissertation (Saami Culture), 0 op

Doctor of Philosophy, Saami Language (North Saami Language or Saami Language of Inari)
Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op

Doctoral Thesis (enintään 198 op)
Doctor of Philosophy, Applied Mathematics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include Teaching tasks to his/her studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
9200022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (31 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
800703J: Research Plan and Seminar, Seminar, 1 - 4 op

Teaching tasks (enintään 5 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

Doctoral Thesis (vähintään 180 op)

801695J: Doctoral Thesis in Applied Mathematics, 0 op

Doctor of Philosophy, Finnish Language
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
694935J: Research Plan and Seminar, Seminar (Finnish Language), 1 op

Doctoral Thesis (enintään 198 op)

680004J: Doctoral dissertation (Finnish Language), 0 op

Doctor of Philosophy, Theoretical Physics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
766692J: Research Plan and Seminar, Seminar, 1 op

Teaching tasks (enintään 8 op)

Teaching tasks

Doctoral Thesis (vähintään 180 op)

763602J: Ph.D. Thesis in Theoretical Physics, 0 op

Doctor of Philosophy, Scientific Communications

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
694521J: Research Plan and Seminar, Seminar (Science Communication), 1 op

Doctoral Thesis (enintään 198 op)

694525J: Doctoral dissertation (Science Communication), 0 op

Doctor of Philosophy, Information Processing Science

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
816624J: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching activities 0-4 credits (the student must have either formal pedagogy training, or follow a course of a minimum of 2 credits in higher education pedagogy)
Teaching tasks

Doctoral Thesis (vähintään 180 op)
816669J: Doctoral Thesis in Information Processing Science, 0 op

Doctor of Philosophy, Statistics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (31 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
800703J: Research Plan and Seminar, Seminar, 1 - 4 op

Teaching tasks (enintään 5 op)
When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

Doctoral Thesis (vähintään 180 op)
802695J: Doctoral Thesis in Statistics, 0 op

Doctor of Philosophy, Astronomy
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
766692J: Research Plan and Seminar, Seminar, 1 op

Teaching tasks (enintään 8 op)

Teaching tasks

Doctoral Thesis (vähintään 180 op)

765602J: Ph.D. Thesis in Astronomy, 0 op

Doctor of Philosophy (Education)

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies, (optional)

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
419115J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching tasks (enintään 6 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

Teaching tasks

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy (Education), Educational Psychology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
419115J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching tasks (enintään 6 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

Teaching tasks

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy (Education), Music Education

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (Optional)

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
419115J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching tasks (enintään 6 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

Teaching tasks

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Science (Economics and Business Administration), Management

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (42 - 46 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
722010J: Business Theory and Thought, 6 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
722001J: Research plan and seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Teaching tasks 0-4 credits (when the student has passed a course 920005J Basics of University Pedagogy for Doctoral Students 2 credits, or equivalent studies).

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

722590J: MAN&ORG, Doctoral Dissertation, 0 op

Doctor of Science, International Business

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (42 - 46 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
722010J: Business Theory and Thought, 6 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
722001J: Research plan and seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Teaching tasks 0-4 credits (when the student has passed a course 920005J Basics of University Pedagogy for Doctoral Students 2 credits, or equivalent studies).

**Teaching Tasks**

**Doctoral Thesis (vähintään 180 op)**

722690J: IB, Doctoral Dissertation, 0 op

**Doctor of Science, Accounting**

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.
Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (vähintään 46 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 722010J: Business Theory and Thought, 6 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 722001J: Research plan and seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Teaching tasks 0-4 credits (when the student has passed a course 920005J Basics of University Pedagogy for Doctoral Students 2 credits, or equivalent studies).

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course “University pedagogics for doctoral students” (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

- 722004J Teaching Tasks 4 credits

**Doctoral Thesis (vähintään 180 op)**

- 722190J: ACC, Doctoral Dissertation, 0 op

**Doctor of Science, Marketing**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.
Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (41 - 46 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 722010J: Business Theory and Thought, 6 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 722001J: Research plan and seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

- 722004J Teaching Tasks 4 credits

**Teaching Tasks**

**Doctoral Thesis (vähintään 180 op)**

- 722490J: MAR, Doctoral Dissertation, 0 op

**Doctor of Science, Finance**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

The student have to get a course 721339S Ekonometria 6 credits, if it is not included in his/her master's degree.

Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (vähintään 46 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 722010J: Business Theory and Thought, 6 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 722001J: Research plan and seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Teaching tasks 0-4 credits (when the student has passed a course 920005J Basics of University Pedagogy for Doctoral Students 2 credits, or equivalent studies).

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course “University pedagogics for doctoral students” (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

722004J Teaching Tasks 4 credits

**Doctoral Thesis (vähintään 180 op)**

722990J: FIN, Doctoral dissertation, 0 op

**Doctor of Science, Economics**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
722010J: Business Theory and Thought, 6 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
722001J: Research plan and seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
Teaching tasks 0-4 credits (when the student has passed a course 920005J Basics of University Pedagogy for Doctoral Students 2 credits, or equivalent studies).

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course “University pedagogics for doctoral students” (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

722004J Teaching Tasks 4 credits

Doctoral Thesis (vähintään 180 op)
722390J: ECON, Doctoral Dissertation, 0 op

Doctor of Medical Science, Medicine
Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Medical Biochemistry and Molecular Biology

Tutkintorakenteen tila: archived
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**General- and Transferable Skills Studies (optional)**

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

**Field Specific Studies (optional)**

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

**Doctoral Thesis**

046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

**Doctor of Science, Architecture**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**
Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
450023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

450001J: Architecture, thesis, 0 op

Doctor of Science (Technology), Automotive & Machine Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

**Teaching Tasks**

**Doctoral Thesis (vähintään 180 op)**

460001J: Mechanical Engineering, thesis, 0 op

**Doctor of Science (Technology), Electronics Materials and Components**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Science (Technology), Electronics Design

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
520023J: Research Plan and Seminar, Seminar, 1 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
520001J: Electrical Engineering, thesis, 0 op

Doctor of Science (Technology), Photonics

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
520023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks
Doctoral Thesis (vähintään 180 op)
520001J: Electrical Engineering, thesis, 0 op

Doctor of Science (Technology), Machine Diagnostic

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
460001J: Mechanical Engineering, thesis, 0 op

Doctor of Science (Technology), Machine Design
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Science (Technology), Materials Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 460023J: Research Plan and Seminar, Seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

**Teaching Tasks**

**Doctoral Thesis (vähintään 180 op)**

- 460001J: Mechanical Engineering, thesis, 0 op

**Doctor of Science (Technology), Mechatronics**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Science (Technology), Process Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
470023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

470001J: Process Engineering, thesis, 0 op

Doctor of Science (Technology), Structural Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

Doctor of Science (Technology), Construction Technology

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op
Doctor of Science (Technology), Technical Mathematics

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
520023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Science (Technology), Technical Mechanics

Tutkintorakenteen tila: published
General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
460001J: Mechanical Engineering, thesis, 0 op

Doctor of Science (Technology), Communications Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.
General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
522023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

522001J: Telecommunication Engineering, thesis, 0 op

Doctor of Science (Technology), Computer Science and Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op
Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
521023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

521001J: Information Engineering, thesis, 0 op

Doctor of Science (Technology), Industrial Engineering and Management

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (180 op)

550001J: Industrial Engineering and Management, thesis, 0 op

Doctor of Science (Technology), Production Technology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.
General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
480023J: Research Plan and Seminar, Seminar, 1 - 4 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
480001J: Environmental Engineering, thesis, 0 op
Doctor of Philosophy, Oral Health Sciences

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Oral Health Sciences

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Medical Science, Oral Health Sciences

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**General- and Transferable Skills Studies (optional)**

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

**Field Specific Studies (optional)**

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Medical Physics and Technology**

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**
General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

- Acceptance and Grading of the Thesis, 0 op
- Doctoral Training Plan, 3 op
- Permission to defend the thesis, 0 op
- Pre-examination, 0 op
- Research Group, 0 op
- Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)

- Medicine, thesis, 0 op

Doctor of Dental Science, Medical Physics and Technology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

- First Follow-up Group Meeting, 0 op
- Follow-up Group Reporting and meetings, 1 op
- Introduction to Doctoral Training, 1 op
- Midterm Report of Doctoral Training, 0 op
- Nomination of follow-up group, 0 op
- Scientific Research and Ethics, 2 op
General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Medical Physics and Technology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Dental Science, Medicine

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Medicine

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op
Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Nursing

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (0 op)

356001J: Health Sciences, thesis, 0 op

Doctor of Health Science, Nursing Science

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Doctoral Thesis (0 op)

356001J: Health Sciences, thesis, 0 op
Doctor of Philosophy, Medical Biochemistry and Molecular Biology

Tutkintorakenteen tila: archived
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis
046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

Doctor of Dental Science, Medical Biochemistry and Molecular Biology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
046034J: Research plan and seminar, seminar, 1 op

Field Specific Studies (optional)

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis

046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

Doctor of Philosophy, Finnish and Scandinavian History, postgraduate studies

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (vähintään 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 700447J: Research Plan and Seminar, Seminar (History), 1 op

**Doctoral Thesis (enintään 198 op)**

- 700442J: Doctoral dissertation (History), 0 op

**Doctor of Philosophy, Yleinen historia**

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (vähintään 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
700447J: Research Plan and Seminar, Seminar (History), 1 op

Doctoral Thesis (enintään 198 op)

700442J: Doctoral dissertation (History), 0 op

Doctor of Philosophy, Mining Technology and Mineral Processing

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
771608J: Research Plan and Seminar, Seminar, Geosciences, 1 op

Teaching tasks (enintään 4 op)

When the student has passed or is going to study at least 2 credits of university pedagogical studies

Teaching tasks
Doctor of Philosophy, Animal Physiology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (24 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Teaching Tasks (enintään 2 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course “University pedagogics for doctoral students” (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)

750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Animal Ecology
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (24 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Teaching Tasks (enintään 2 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)

750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Ecology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (24 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Teaching Tasks (enintään 2 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)

750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Genetics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
Field Specific Studies (24 - 26 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Teaching Tasks (enintään 2 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course “University pedagogics for doctoral students” (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)
750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Plant Ecology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op
General- and Transferable Skills Studies, (optional)

Field Specific Studies (24 - 26 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op  
920012J: Doctoral Training Plan, 3 op  
920019J: Permission to defend the thesis, 0 op  
920018J: Pre-examination, 0 op  
920021J: Research Group, 0 op  
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Field Specific Studies, (optional)

Teaching Tasks (enintään 2 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)
750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Plant Physiology
Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op  
920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920014J: Midterm Report of Doctoral Training, 0 op  
920022J: Nomination of follow-up group, 0 op  
920002J: Scientific Research and Ethics, 2 op

General- and Transferable Skills Studies (optional)
Field Specific Studies (24 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Field Specific Studies (optional)

Teaching Tasks (enintään 2 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

- 750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)

- 750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Genetics and physiology

Tutkintorakenteen tila: published

Luvuusi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (24 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Teaching Tasks (enintään 2 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course “University pedagogics for doctoral students” (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl).

750600J Teaching Tasks

Doctoral Thesis (vähintään 180 op)

750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Mechatronics

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Materials Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.
Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Process Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
470023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

470001J: Process Engineering, thesis, 0 op
Doctor of Philosophy, Structural Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Structural Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (vähintään 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
780614J: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)

788610J: Ph.D. Thesis in Structural Chemistry, 0 op

Doctor of Philosophy, Construction Technology

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Electrical engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Other Field Specific Studies 28-32 credits.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
520023J: Research Plan and Seminar, Seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

**Doctoral Thesis (vähintään 180 op)**

520001J: Electrical Engineering, thesis, 0 op

**Doctor of Philosophy, Technical Mathematics**

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

**General- and Transferable Skills Studies**

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

**Field Specific Studies**

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)
520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Technical Mechanics

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.
Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Communications Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (28 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
522023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

522001J: Telecommunication Engineering, thesis, 0 op
Doctor of Philosophy, Computer Science and Engineering

Tutkintorakenteen tila: published
Lukuvuoasi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

Field Specific Studies
920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
521023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

521001J: Information Engineering, thesis, 0 op

Doctor of Philosophy, Industrial Engineering and Management

Tutkintorakenteen tila: published
Lukuvuoasi: 2016-17
Lukuvuoden alkamispäivämäärä: 01.08.2016
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 550023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (180 op)

550001J: Industrial Engineering and Management, thesis, 0 op

Doctor of Philosophy, Production Technology

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Other Field Specific Studies 28-32 credits.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
460023J: Research Plan and Seminar, Seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Science, Logistics

Tutkintorakenteen tila: published

Lukuvuosi: 2016-17

Lukuvuoden alkamispäivämäärä: 01.08.2016

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students may be required to take up to 0-30 credits of bridging studies (when student has an university degree, in other cases up to 60 credits may be required).

Recommendations of specific courses can be found from Oulu Business School’s doctoral study guide.

General- and Transferable Skills Studies

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op
Field Specific Studies (41 - 46 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920020J: Acceptance and Grading of the Thesis, 0 op
722010J: Business Theory and Thought, 6 op
920012J: Doctoral Training Plan, 3 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op
920021J: Research Group, 0 op
722001J: Research plan and seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: [http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl](http://www.oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl)).

722004J Teaching Tasks 4 op

Teaching Tasks

Doctoral Thesis (vähintään 180 op)

722790J: LOG, Doctoral dissertation, 0 - 180 op

Opintojaksojen kuvaus

Tutkintorakenteisiin kuuluvien opintokohteiden kuvaus

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also
capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories
and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines,
processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorminators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about **assessment criteria** at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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### 920014J: Midterm Report of Doctoral Training, 0 op

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies

**Laj:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920022J: Nomination of follow-up group, 0 op

**Voimassaolo:** 01.01.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laj:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

### 920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 700122J: Research Plan and Seminar, Seminar (History of Science and Ideas), 1 op

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies
Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

702104J: Doctoral dissertation (History of Science and Ideas), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyskikko: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kiele:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kiele:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**687358J: Research Plan and Seminar, Seminar (Archaeology), 1 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies
**Research Plan and Seminar, seminar**  1.0 op

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Finnish or English (or other, when appropriate)

**Timing:**
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

**Learning outcomes:**
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

**Mode of delivery:**
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Learning activities and teaching methods:**
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Public presentation of the research plan/results in a Research (Plan) Seminar.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Responsible persons of the relevant Majors/fields of doctoral studies.

**Other information:**

**Type of course:** Obligatory “field-specific” studies.

**Recording of the activities and credits:** The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

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**712004J: Doctoral dissertation (archaeology), 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Faculty of Humanities

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** Finnish

Ei opintojaksoikkuvuksia.

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**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaalo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

- 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**450023J: Research Plan and Seminar, Seminar, 1 op**

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:
  920004J-02  Research Plan and Seminar, seminar   1.0 op
Voidaan suoritaa useasti: Kyllä

Ei opintojaksokuvauksia.

450001J: Architecture, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu School of Architecture
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative databases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail
**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**

ECTS credits

**Language of instruction:**

English/Finnish

**Timing:**

The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**

After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä  

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

**460023J: Research Plan and Seminar, Seminar, 1 op**  
**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Field of Mechanical Engineering  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
920004J-02  
**Voidaan suorittaa useasti:** Kyllä  

Ei opintojaksokuvauksia.

**460001J: Mechanical Engineering, thesis, 0 op**  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Field of Mechanical Engineering  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**  
**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksonkuvausia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

766692J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Physics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English

Leikkaavuudet:
ECTS Credits:
1 ECTS credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete the course within one year of transferring to the new requirements.
The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the student knows how to present and discus his/her research progress in oral form, and has learned how to critically discuss the research of others.

Contents:
Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, oral presentation of the research.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
Doctoral students registered in the University of Oulu Graduate School, obligatory “field-specific” studies

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
No alternative course units or course units that should be completed simultaneously

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Working life cooperation:
No work placement period

Other information:
The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

764602J: Ph.D. Thesis in Biophysics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kiele:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.
**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

ECTS credits

**Language of instruction:**

English/Finnish

**Timing:**

The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**

After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**


**Mode of delivery:**

Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**

Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**

The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**

Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**

Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**

pass/fail

**Person responsible:**

Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**

Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä  

Ei opintojaksokuvauksia.

### 920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

### 046034J: Research plan and seminar, seminar, 1 op

**Voimassaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies
356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 - 01.01.2012
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.08.2012 - 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 - 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass/fail
Person responsible:
320014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

320022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

320002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**Leikkaavuudet:**
Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op
Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.

Learning activities and teaching methods: obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions .

Read more about assessment criteria at the University of Oulu webpage.

Grading: pass/fail

Person responsible: Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish  

**ECTS Credits:**  
ECTS credits  
**Language of instruction:**  
English/Finnish  
**Timing:**  
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.  
**Learning outcomes:**  
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.  
**Contents:**  
**Mode of delivery:**  
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690  
**Learning activities and teaching methods:**  
Online course (4 weeks), field-specific lectures (6 h.), Group work.  
**Prerequisites and co-requisites:**  
The student must have been admitted to the University of Oulu Graduate School.  
**Recommended or required reading:**  
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.  
**Assessment methods and criteria:**  
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.  
**Grading:**  
pass/fail  
**Person responsible:**  
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)  
**Other information:**  
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Backgroud literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

682367J: Research Plan and Seminar, Seminar (English), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op
ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.

Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

692004J: Doctoral dissertation (English), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. Read more about assessment criteria at the University of Oulu webpage.

**Grading:**

pass / fail

**Person responsible:**

Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**520023J: Research Plan and Seminar, Seminar, 1 op**

**Voimassaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Electrical Engineering DP  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**

920004J-02 Research Plan and Seminar, seminar 1.0 op

**Voidaan suorittaa useasti:** Kyllä
520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to and, its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

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### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä  

Ei opintojaksokuvauksia.
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

780614J: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Chemistry
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

785610J: Ph.D. Thesis in Inorganic Chemistry, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Chemistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

Read more about assessment criteria at the University of Oulu webpage.
920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen

ECTS Credits:

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
766692J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Physics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete the course within one year of transferring to the new requirements.

The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the student knows how to present and discuss his/her research progress in oral form, and has learned how to critically discuss the research of others.

Contents:
Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, oral presentation of the research.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
Doctoral students registered in the University of Oulu Graduate School, obligatory “field-specific” studies

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
No alternative course units or course units that should be completed simultaneously

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Working life cooperation:
No work placement period

Other information:
The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

766602J: Ph.D. Thesis in Physics, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit

Language of instruction:  
English

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about/ the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:  
lectures, discussions and networking.

Learning activities and teaching methods:  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:  
Participation in lectures and discussions .

Read more about assessment criteria at the University of Oulu webpage.

Grading:  
pass/fail

Person responsible:  
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:  
920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status: Obligatory "field-specific" studies  
ECTS Credits: 3 credits  
Language of instruction: English (or other, when appropriate)  
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

780614J: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Chemistry
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02  Research Plan and Seminar, seminar  1.0 op

Ei opintojaksokuvauksia.

786610J: Ph.D. Thesis in Physical Chemistry, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Chemistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
Language of instruction: 
Language of meeting as appropriate, progress reports in English or Finnish.

Timing: 
Once per year

Learning outcomes: 
The student is able to report effectively on the plans and accomplishments of his/her training. 
The student is able to reflect on his/her training.

Course objectives: 
Aiming to reflect own progress and plans of the doctoral training. 
Aiming to provide supplementary support for the doctoral training.

Contents: 
Written and oral presentation reports and plans.

Learning activities and teaching methods: 
Annual meetings.

Assessment methods and criteria: 
Evaluation of progress reports and plans.

Grading: 
pass / fail

Person responsible: 
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry 
Opintokohteen kielet: English

ECTS Credits: 
1 ECTS credit

Language of instruction: 
English

Timing: 
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: 
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: 
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: 
lectures, discussions and networking.

Learning activities and teaching methods: 
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojakuvausia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksojakuvausia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti?: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

766692J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: Field of Physics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete the course within one year of transferring to the new requirements.
The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.
Learning outcomes:
After the course the student knows how to present and discuss his/her research progress in oral form, and has learned how to critically discuss the research of others.

**Contents:**
Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, oral presentation of the research.

**Learning activities and teaching methods:**
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
Doctoral students registered in the University of Oulu Graduate School, obligatory “field-specific” studies

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended optional programme components:**
No alternative course units or course units that should be completed simultaneously

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
Pass/fail

**Person responsible:**
Responsible persons of the relevant Majors/fields of doctoral studies.

**Working life cooperation:**
No work placement period

**Other information:**
The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

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**762602J: Ph.D. Thesis in Geophysics, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Field of Physics  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kiele:** Finnish
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kiele:** Finnish
ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail
Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

771608J: Research Plan and Seminar, Seminar, Geosciences, 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Mining School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

771603J: Ph. D. thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Mining School
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

ETCS Credits:  
1 ECTS  

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  

Timing:  
Once per year  

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  

Contents:  
Written and oral presentation reports and plans.  

Learning activities and teaching methods:  
Annual meetings.  

Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  

Grading:  
pass / fail  

Person responsible:  
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Opettajat: Jarmo Pulkkinen
ECTS Credits:
Language of instruction:
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniosgs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status: Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksojokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
693460J: Research Plan and Seminar, Seminar (German Language and Culture), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training. All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar. Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

696004J: Doctoral Dissertation (German Language and Culture), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish
**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 - 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

**920001J: Introduction to Doctoral Training, 1 op**

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of
The doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**  
Personal work, written presentation.

**Learning activities and teaching methods:**  
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**  
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**  
Background literature of own research field.

**Assessment methods and criteria:**  
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.  
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.  
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**  
pass / fail

**Person responsible:**  
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä  

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.
700447J: Research Plan and Seminar, Seminar (History), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS
Language of instruction:
Finnish or English (or other, when appropriate)
Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

700442J: Doctoral dissertation (History), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit
Language of instruction:
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.

Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions . Read more about assessment criteria at the University of Oulu webpage.

Grading: pass/fail

Person responsible: Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä  

Ei opintojaksokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
ECTS credits  
**Language of instruction:** English/Finnish  
**Timing:**  
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**  
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**  

**Mode of delivery:**  
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**  
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**  
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**  
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**  
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**  
pass/fail

**Person responsible:**  
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**  
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

694642J: Research Plan and Seminar, Seminar (Information Studies), 1 op
ECTS Credits: 1 ECTS
Language of instruction: Finnish or English (or other, when appropriate)
Timing: All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes: After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery: Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods: Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites: The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading: Background literature of own research field.

Assessment methods and criteria: Public presentation of the research plan/results in a Research (Plan) Seminar. Read more about assessment criteria at the University of Oulu webpage.

Grading: pass/fail

Person responsible: Responsible persons of the relevant Majors/fields of doctoral studies.

Other information: Type of course: Obligatory “field-specific” studies.

Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

850004J: Doctoral dissertation (information Studies), 0 op

920004J: Research Plan and Seminar, seminar 1.0 op
920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS
**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.
**Timing:**
Once per year
**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
**Contents:**
Written and oral presentation reports and plans.
**Learning activities and teaching methods:**
Annual meetings.
**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
**Grading:**
pass / fail
**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry
**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit
**Language of instruction:**
English
**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**

pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiellet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiellet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiellet:** Finnish

Ei opintojaksokuvauksia.

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**419115J: Research plan and seminar, seminar, 1 op**

**Voimassaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies
**Course**

**Vastuuysikkö:** Faculty of Education

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

920004J-02 Research Plan and Seminar, seminar 1.0 op

**Voidaan suorittaa useasti:** Kyllä

**ECTS Credits:**

1 ECTS / 27 hours of work

**Language of instruction:**

Finnish or English, depending on the seminar

**Timing:**

During the next calendar year following the acceptance of Doctoral Training Plan.

**Learning outcomes:**

Upon completion of the course, the student is able to present his/her research plan in public.

**Contents:**

The theme of the student's PhD thesis.

**Mode of delivery:**

Independent work.

**Learning activities and teaching methods:**

Public seminar.

**Target group:**

PhD students

**Prerequisites and co-requisites:**

No

**Recommended or required reading:**

No specific materials.

**Assessment methods and criteria:**

Presenting a research plan.

**Grading:**

pass/fail

**Person responsible:**

Dean of Research

**Working life cooperation:**

No

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**419105J: Doctoral thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Faculty of Education

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

160 cr

**Contents:**

For a scientific study to be accepted as a doctoral thesis, it must be based on independent research and it should add to knowledge in the field of the research of the major subject.

The doctoral thesis can be published as a single monograph or as a so-called bundled thesis, in which case it contains a number of scientific publications or manuscripts accepted for publication on the same set of problems, accompanied by a summary of them, or some other work meeting the same criteria. The summary shall present the theoretical background, methods, important results and scientifically based conclusions of the research. The publications can also include co-authored publications, if the doctoral candidate's independent share in them can be proved.
In addition to the summary, a bundled thesis shall include 3-5 international refereed articles. These publications must have been published or accepted for publication before the thesis is submitted for a preliminary examination. The shared responsibilities for a co-authored article shall be specified as early as possible, or when the article is published at the latest. Distribution of responsibility and the author's share shall be clarified in a communication to the faculty when the manuscript is submitted for assessment.

If there are more than three publications, one of the publications can be a submitted manuscript in which case the preliminary examiner can assess it similarly to a monograph or suggest corrections to be made to it if necessary. In at least three of the articles, the author shall be the only author or the primary author. In co-authored articles, the names of the authors are entered in such an order that the first name refers to the person who contributed most to writing the article. The crucial issues are the scientific level of the publications and the whole formed by them.

**Preliminary examination**

If the preliminary examination seminar recommends that the thesis should be submitted for an official examination, or when the supervisor finds that the deficiencies brought up have been corrected, the student shall deliver the manuscript in three copies to the Faculty Office. The faculty appoints at least two preliminary examiners who shall be from outside the faculty/department. Within three months from having been appointed, they shall submit a substantiated written statement either together or separately, proposing that permission be either given or not given to publish the thesis. The permission cannot be conditional.

In the preliminary examination, attention is also given to the language of the thesis. Before giving their statement, the preliminary examiners can discuss the deficiencies they have observed with the author of the thesis, proposing that the corrections required by publication be made before they give their statement to the Faculty Council.

**Publication permission**

Based on the preliminary examiners’ statement(s) and any remarks on them by the author of the thesis, the Faculty Council makes the decision on granting the permission to publish the thesis.

When the permission has been given, the thesis must be published. The theses are also published in an electronic form. The doctoral candidate shall deliver a copy of the thesis to the Faculty Office to be mounted on the noticeboard at least ten days before the public examination. The doctoral candidate shall deliver his/her thesis to the Faculty Office for inspection by the members of the Faculty Council, and in person to the dean of the faculty, ten days before the public examination. It is good manners that the candidate agrees on an appointment with the university's Rector through his secretary (tel. 553 4071) and delivers personally a copy of the thesis to him.

The doctoral thesis can be published in the Acta Universitatis Ouluensis series, for instance, or in some other scientific series, but it can also be self-published. The publication committee for the Acta series has issued detailed instructions for publications to be published in the series http://www.kirjasto.oulu.fi/julkaisutoiminta/acta.

All doctoral theses shall include an abstract in English with keywords. In the Faculty of Education theses written in a language other than Finnish shall also include an abstract in Finnish.

**Public examination**

The Faculty Council appoints its representative (custos) for the public examination as well as one or two opponents who shall be at least qualified adjunct professors or have corresponding scientific merits. The supervisors of the doctoral candidate or the co-authors of a bundled thesis are not allowed to function as opponents. The author of the thesis is given an opportunity to give a statement on the appointment of the opponents.

The dean of the faculty fixes the date for the public examination.

Advice on practical issues related to the public examination is given at the Faculty Office and in the booklet called Ohjeita väittelijöille available at http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm.

**Assessment of doctoral theses**

Within one month from the public examination, the opponents shall give a written statement about the thesis, detailing its merits and deficiencies and recommending that the faculty either accept (or reject) the study as a thesis that justifies the doctor's degree. The opponents shall also suggest a grade for the thesis. The custos shall give the Faculty Council his/her statement on the progress of the public examination and the doctoral candidate's capacity to defend his/her thesis. If necessary, the Faculty Council can also consult the preliminary examiners of the thesis.
Before the thesis is graded, the doctoral candidate is given an opportunity to comment on the statement about the grading of the thesis. On the basis of these statements and proposals, the Faculty Council makes the decision on either accepting or rejecting the thesis and on its grade. A thesis that is accepted is graded on the following scale:

5 = excellent  
4 = very good  
3 = good  
2 = satisfactory  
1 = sufficient

When the rejection or acceptance and the grade of a doctoral thesis (and Licentiate thesis where applicable) is considered, these are some of the issues that are taken into account:
- Significance, originality or novelty of the research setting in relation to other past and current research in the same field.
- Justification of the chosen research methods, originality of the methods used, development of new methods.
- Theoretical or practical significance of the research results.
- Familiarity with the field of research indicated by the thesis and the ability to consider one’s own and others’ research critically and to make clear conclusions about the results achieved.
- Consistency and clarity of presentation and other stylistic aspects.
- Capacity of the author to defend his/her thesis in the public examination.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksoon kuuluisa.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery: lectures, discussions and networking.
Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School.
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**
- 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year. All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes: After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents: 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery: Personal work, written presentation.
Learning activities and teaching methods: Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Prerequisites and co-requisites: The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading: Background literature of own research field.
Assessment methods and criteria: Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass / fail
Person responsible: Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

419115J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS / 27 hours of work
Language of instruction:
Finnish or English, depending on the seminar
Timing:
During the next calendar year following the acceptance of Doctoral Training Plan.
Learning outcomes:
Upon completion of the course, the student is able to present his/her research plan in public.
Contents:
The theme of the student's PhD thesis.

Mode of delivery:
Independent work.
Learning activities and teaching methods:
Public seminar.
Target group:
PhD students
Prerequisites and co-requisites:
No
Recommended or required reading:
No specific materials.
Assessment methods and criteria:
Presenting a research plan.
Grading:
pass/fail
Person responsible:
Dean of Research
Working life cooperation:
No
For a scientific study to be accepted as a doctoral thesis, it must be based on independent research and it should add to knowledge in the field of the research of the major subject.

The doctoral thesis can be published as a single monograph or as a so-called bundled thesis, in which case it contains a number of scientific publications or manuscripts accepted for publication on the same set of problems, accompanied by a summary of them, or some other work meeting the same criteria. The summary shall present the theoretical background, methods, important results and scientifically based conclusions of the research. The publications can also include co-authored publications, if the doctoral candidate's independent share in them can be proved.

In addition to the summary, a bundled thesis shall include 3-5 international refereed articles. These publications must have been published or accepted for publication before the thesis is submitted for a preliminary examination. The shared responsibilities for a co-authored article shall be specified as early as possible, or when the article is published at the latest. Distribution of responsibility and the author's share shall be clarified in a communication to the faculty when the manuscript is submitted for assessment.

If there are more than three publications, one of the publications can be a submitted manuscript in which case the preliminary examiner can assess it similarly to a monograph or suggest corrections to be made to it if necessary. In at least three of the articles, the author shall be the only author or the primary author. In co-authored articles, the names of the authors are entered in such an order that the first name refers to the person who contributed most to writing the article. The crucial issues are the scientific level of the publications and the whole formed by them.

**Preliminary examination**

If the preliminary examination seminar recommends that the thesis should be submitted for an official examination, or when the supervisor finds that the deficiencies brought up have been corrected, the student shall deliver the manuscript in three copies to the Faculty Office. The faculty appoints at least two preliminary examiners who shall be from outside the faculty/department. Within three months from having been appointed, they shall submit a substantiated written statement either together or separately, proposing that permission be either given or not given to publish the thesis. The permission cannot be conditional.

In the preliminary examination, attention is also given to the language of the thesis. Before giving their statement, the preliminary examiners can discuss the deficiencies they have observed with the author of the thesis, proposing that the corrections required by publication be made before they give their statement to the Faculty Council.

**Publication permission**

Based on the preliminary examiners' statement(s) and any remarks on them by the author of the thesis, the Faculty Council makes the decision on granting the permission to publish the thesis.

When the permission has been given, the thesis must be published. The theses are also published in an electronic form. The doctoral candidate shall deliver a copy of the thesis to the Faculty Office to be mounted on the noticeboard at least ten days before the public examination. The doctoral candidate shall deliver his/her thesis to the Faculty Office for inspection by the members of the Faculty Council, and in person to the dean of the faculty, ten days before the public examination. It is good manners that the candidate agrees on an appointment with the university's Rector through his secretary (tel. 553 4071) and delivers personally a copy of the thesis to him.

The doctoral thesis can be published in the Acta Universitatis Ouluensis series, for instance, or in some other scientific series, but it can also be self-published. The publication committee for the Acta series has issued detailed instructions for publications to be published in the series http://www.kirjasto.oulu.fi/julkaisutoiminta/acta.
All doctoral theses shall include an abstract in English with keywords. In the Faculty of Education theses written in a language other than Finnish shall also include an abstract in Finnish.

Public examination

The Faculty Council appoints its representative (custos) for the public examination as well as one or two opponents who shall be at least qualified adjunct professors or have corresponding scientific merits. The supervisors of the doctoral candidate or the co-authors of a bundled thesis are not allowed to function as opponents. The author of the thesis is given an opportunity to give a statement on the appointment of the opponents.

The dean of the faculty fixes the date for the public examination.

Advice on practical issues related to the public examination is given at the Faculty Office and in the booklet called Ohjeita väittelijöille available at http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm.

Assessment of doctoral theses

Within one month from the public examination, the opponents shall give a written statement about the thesis, detailing its merits and deficiencies and recommending that the faculty either accept (or reject) the study as a thesis that justifies the doctor's degree. The opponents shall also suggest a grade for the thesis. The custos shall give the Faculty Council his/her statement on the progress of the public examination and the doctoral candidate's capacity to defend his/her thesis. If necessary, the Faculty Council can also consult the preliminary examiners of the thesis. Before the thesis is graded, the doctoral candidate is given an opportunity to comment on the statement about the grading of the thesis. On the basis of these statements and proposals, the Faculty Council makes the decision on either accepting or rejecting the thesis and on its grade. A thesis that is accepted is graded on the following scale:

5 = excellent
4 = very good
3 = good
2 = satisfactory
1 = sufficient

When the rejection or acceptance and the grade of a doctoral thesis (and Licentiate thesis where applicable) is considered, these are some of the issues that are taken into account:
- Significance, originality or novelty of the research setting in relation to other past and current research in the same field.
- Justification of the chosen research methods, originality of the methods used, development of new methods.
- Theoretical or practical significance of the research results.
- Familiarity with the field of research indicated by the thesis and the ability to consider one's own and others' research critically and to make clear conclusions about the results achieved.
- Consistency and clarity of presentation and other stylistic aspects.
- Capacity of the author to defend his/her thesis in the public examination.

920017J: First Follow-up Group Meeting, 0 op

Voimassaalo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaalo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
**Laji**: Course  
**Vastuuysikkö**: University of Oulu Graduate School, UniOGS  
**Arvostelu**: 1 - 5, pass, fail  
**Opintokohteen kielet**: Finnish  

**ECTS Credits**:  
1 ECTS  

**Language of instruction**:  
Language of meeting as appropriate, progress reports in English or Finnish.  

**Timing**:  
Once per year  

**Learning outcomes**:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  

**Course objectives**:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  

**Contents**:  
Written and oral presentation reports and plans.  

**Learning activities and teaching methods**:  
Annual meetings.  

**Assessment methods and criteria**:  
Evaluation of progress reports and plans.  
Read more about [assessment criteria](#) at the University of Oulu webpage.  

**Grading**:  
pass / fail  

**Person responsible**:  
Chair of the Follow-up Group and Coorninators of UniOGS.  

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**920001J: Introduction to Doctoral Training, 1 op**  

**Voimassaolo**: 01.08.2011 -  
**Opiskelumuoto**: Post-graduate Studies  
**Laji**: Course  
**Vastuuysikkö**: University of Oulu Graduate School, UniOGS  
**Arvostelu**: 1 - 5, pass, fail  
**Opettajat**: Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet**: English  

**ECTS Credits**:  
1 ECTS credit  

**Language of instruction**:  
English  

**Timing**:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.  

**Learning outcomes**:  
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.  

**Contents**:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory “field-specific” studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

### 920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 687170J: Research Plan and Seminar, Seminar (Literature), 1 op

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Faculty of Humanities  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
920004J-02 Research Plan and Seminar, seminar 1.0 op

**ECTS Credits:**  
1 ECTS  
**Language of instruction:**  
Finnish or English (or other, when appropriate)  
**Timing:**
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training. All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

**Learning outcomes:**
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

**Mode of delivery:**
Personal work, oral presentation of the research in the form of a public *Research Plan Seminar*, or a *Research Seminar*.

**Learning activities and teaching methods:**
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Public presentation of the research plan/results in a *Research (Plan) Seminar*.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Responsible persons of the relevant Majors/fields of doctoral studies.

**Other information:**

**Type of course:** Obligatory "field-specific" studies.

**Recording of the activities and credits:**
The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

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711104J: Doctoral dissertation (literature), 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Faculty of Humanities  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit  
Language of instruction:  
English  
Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.  
Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.  
Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920012J: Doctoral Training Plan, 3 op

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu website.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02  Research Plan and Seminar, seminar  1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**
- 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

687239J: Research Plan and Seminar, Seminar (Cultural Anthropology), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete "Research Plan & Seminar, Plan" as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar. Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory "field-specific" studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

713104J: Doctoral dissertation (Cultural anthropology), 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
ECTS credits
**Language of instruction:**
English/Finnish
**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
**Contents:**
**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)
**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.
**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.
**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
**Grading:**
pass/fail
**Person responsible:**
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**
694789J: Research Plan and Seminar, Seminar (Logopedics), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete "Research Plan & Seminar, Plan" as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar. Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

739004J: Doctoral Thesis (Logopedics), 0 op
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Faculty of Humanities  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
**793612J: Research Plan and Seminar, seminar, 1 op**

Voimassaolo: 01.08.2013 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course 
Vastuuysikkö: Field of Geography 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish
Leikkaavuudet: 
920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

**793611J: Teaching Tasks, 0 - 5 op**

Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course 
Vastuuysikkö: Field of Geography 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**793607J: Ph.D. thesis in geography, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis 
Vastuuysikkö: Field of Geography 
Arvostelu: suor (pass), oiv (excellent), khy (excellent) 
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status: Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**771608J: Research Plan and Seminar, Seminar, Geosciences, 1 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** Oulu Mining School
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** English

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op
**771603J: Ph. D. thesis, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Oulu Mining School  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: Finnish

**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

**920007J: Follow-up Group Reporting and meetings, 1 op**

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:  
pass / fail

Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.
## Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet:** English

### ECTS Credits:
1 ECTS credit  
### Language of instruction:
English  
### Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

### Learning outcomes:
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

### Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition, transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

### Mode of delivery:
lectures, discussions and networking.  
### Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

### Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

### Recommended optional programme components:

### Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

### Assessment methods and criteria:
Participation in lectures and discussions .  
Read more about [assessment criteria](#) at the University of Oulu webpage.

### Grading:
pass/fail  
### Person responsible:  
Coordinators of the University of Oulu Graduate School

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## Midterm Report of Doctoral Training, 0 op

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course

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920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op

Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinnen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**
920004J-01  Research Plan and Seminar, Research Plan  3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

800703J: Research Plan and Seminar, Seminar, 1 - 4 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mathematics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

800695J: Doctoral Thesis in Mathematics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mathematics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

### 920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
Learning activities and teaching methods:
Obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
Pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee
920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

419115J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-02 Research Plan and Seminar, seminar  1.0 op
Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS / 27 hours of work
Language of instruction:
Finnish or English, depending on the seminar
Timing:
During the next calendar year following the acceptance of Doctoral Training Plan.
Learning outcomes:
Upon completion of the course, the student is able to present his/her research plan in public.
Contents:
The theme of the student's PhD thesis.
Mode of delivery: Independent work.
Learning activities and teaching methods: Public seminar.
Target group: PhD students
Prerequisites and co-requisites: No
Recommended or required reading: No specific materials.
Assessment methods and criteria: Presenting a research plan.
Grading: pass/fail
Person responsible: Dean of Research
Working life cooperation: No

419105J: Doctoral thesis, 0 op

Voimassaalo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

ECTS Credits: 160 cr

Contents:
For a scientific study to be accepted as a doctoral thesis, it must be based on independent research and it should add to knowledge in the field of the research of the major subject.

The doctoral thesis can be published as a single monograph or as a so-called bundled thesis, in which case it contains a number of scientific publications or manuscripts accepted for publication on the same set of problems, accompanied by a summary of them, or some other work meeting the same criteria. The summary shall present the theoretical background, methods, important results and scientifically based conclusions of the research. The publications can also include co-authored publications, if the doctoral candidate's independent share in them can be proved.

In addition to the summary, a bundled thesis shall include 3-5 international refereed articles. These publications must have been published or accepted for publication before the thesis is submitted for a preliminary examination. The shared responsibilities for a co-authored article shall be specified as early as possible, or when the article is published at the latest. Distribution of responsibility and the author's share shall be clarified in a communication to the faculty when the manuscript is submitted for assessment.

If there are more than three publications, one of the publications can be a submitted manuscript in which case the preliminary examiner can assess it similarly to a monograph or suggest corrections to be made to it if necessary. In at least three of the articles, the author shall be the only author or the primary author. In co-authored articles, the names of the authors are entered in such an order that the first name refers to the person who contributed most to writing the article. The crucial issues are the scientific level of the publications and the whole formed by them.

Preliminary examination

If the preliminary examination seminar recommends that the thesis should be submitted for an official examination, or when the supervisor finds that the deficiencies brought up have been corrected, the student shall deliver the manuscript in three copies to the Faculty Office. The faculty appoints at least two preliminary examiners who shall be
from outside the faculty/department. Within three months from having been appointed, they shall submit a
substantiated written statement either together or separately, proposing that permission be either given or not given
to publish the thesis. The permission cannot be conditional.

In the preliminary examination, attention is also given to the language of the thesis. Before giving their statement, the
preliminary examiners can discuss the deficiencies they have observed with the author of the thesis, proposing that
the corrections required by publication be made before they give their statement to the Faculty Council.

Publication permission

Based on the preliminary examiners’ statement(s) and any remarks on them by the author of the thesis, the Faculty
Council makes the decision on granting the permission to publish the thesis.

When the permission has been given, the thesis must be published. The theses are also published in an electronic
form. The doctoral candidate shall deliver a copy of the thesis to the Faculty Office to be mounted on the noticeboard
at least ten days before the public examination. The doctoral candidate shall deliver his/her thesis to the Faculty
Office for inspection by the members of the Faculty Council, and in person to the dean of the faculty, ten days before
the public examination. It is good manners that the candidate agrees on an appointment with the university’s Rector
through his secretary (tel. 553 4071) and delivers personally a copy of the thesis to him.

The doctoral thesis can be published in the Acta Universitatis Ouluensis series, for instance, or in some other
scientific series, but it can also be self-published. The publication committee for the Acta series has issued detailed
instructions for publications to be published in the series http://www.kirjasto.oulu.fi/julkaisutoiminta/acta.

All doctoral theses shall include an abstract in English with keywords. In the Faculty of Education theses written in a
language other than Finnish shall also include an abstract in Finnish.

Public examination

The Faculty Council appoints its representative (custos) for the public examination as well as one or two opponents
who shall be at least qualified adjunct professors or have corresponding scientific merits. The supervisors of the
doc toral candidate or the co-authors of a bundled thesis are not allowed to function as opponents. The author of the
thesis is given the opportunity to give a statement on the appointment of the opponents.

The dean of the faculty fixes the date for the public examination.

Advice on practical issues related to the public examination is given at the Faculty Office and in the booklet called

Assessment of doctoral theses

Within one month from the public examination, the opponents shall give a written statement about the thesis,
detailing its merits and deficiencies and recommending that the faculty either accept (or reject) the study as a thesis
that justifies the doctor’s degree. The opponents shall also suggest a grade for the thesis. The custos shall give the
Faculty Council his/her statement on the progress of the public examination and the doctoral candidate’s capacity to
defend his/her thesis. If necessary, the Faculty Council can also consult the preliminary examiners of the thesis.
Before the thesis is graded, the doctoral candidate is given an opportunity to comment on the statement about the
grading of the thesis. On the basis of these statements and proposals, the Faculty Council makes the decision on
either accepting or rejecting the thesis and on its grade. A thesis that is accepted is graded on the following scale:

5 = excellent
4 = very good
3 = good
2 = satisfactory
1 = sufficient

When the rejection or acceptance and the grade of a doctoral thesis (and Licentiate thesis where applicable) is
considered, these are some of the issues that are taken into account:
- Significance, originality or novelty of the research setting in relation to other past and current research in the
same field.
- Justification of the chosen research methods, originality of the methods used, development of new methods.
- Theoretical or practical significance of the research results.
- Familiarity with the field of research indicated by the thesis and the ability to consider one’s own and others’
research critically and to make clear conclusions about the results achieved.
- Consistency and clarity of presentation and other stylistic aspects.
- Capacity of the author to defend his/her thesis in the public examination.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions. Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 ·
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 ·
Opiskelumuoto: Post-graduate Studies
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits:
Language of instruction: English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of
hte doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
780614J: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Chemistry
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

787610J: Ph.D. Thesis in Organic Chemistry, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Chemistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laj:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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### 920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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### 920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

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### 920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksoavuksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoavuksia.

693682J: Research Plan and Seminar, Seminar (Swedish Language), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

**Assessment methods and criteria:**
Public presentation of the research plan/results in a *Research (Plan) Seminar.*

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Responsible persons of the relevant Majors/fields of doctoral studies.

**Other information:**
- **Type of course:** Obligatory “field-specific” studies.
- **Recording of the activities and credits:** The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

687004J: Doctoral Dissertation (Swedish Language), 0 op

**Opiskelumuoto:** Post-graduate Studies
**Laji:** Defence of the Ph. D. thesis
**Vastuuysikkö:** Faculty of Humanities
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

**Voimassaolo:** 01.01.2012 - 
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 - 
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U: Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
PhD supervision. Ethics and research funding. Plagiarism and misappropriation. Authorship and scientific publishing. Ethical problems characteristic to different sciences.

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoenvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status: Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes: After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents: 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of his/her doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery: Personal work, written presentation.

Learning activities and teaching methods: Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites: The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading: Background literature of own research field.

Assessment methods and criteria: Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading: pass / fail
Person responsible: Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

683503J: Research Plan and Seminar, Seminar (Saami Culture), 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

682013J: Doctoral dissertation (Saami Culture), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Giellagas Institute for Saami Studies
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate
School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**682009J: Doctoral dissertation (Saami Language), 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Giellagas Institute for Saami Studies  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**800703J: Research Plan and Seminar, Seminar, 1 - 4 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies
**801695J: Doctoral Thesis in Applied Mathematics, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuyksikkö:** Field of Mathematics  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kieleet:** Finnish

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kieleet:** Finnish

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kieleet:** Finnish

**ECTS Credits:**  
1 ECTS  
**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.  
**Timing:**  
Once per year  
**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
**Course objectives:**  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
**Contents:**  
Written and oral presentation reports and plans.  
**Learning activities and teaching methods:**  
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakso啄uvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojakso啄uvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

920004J-01  Research Plan and Seminar, Research Plan  3.0 op
Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojakaufsias.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovaikutuksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksovaikutuksia.

694935J: Research Plan and Seminar, Seminar (Finnish Language), 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

680004J: Doctoral dissertation (Finnish Language), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives: Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.
Contents: Written and oral presentation reports and plans.
Learning activities and teaching methods: Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
### 920001J: Introduction to Doctoral Training, 1 op

**Voi massaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet:** English

#### ECTS Credits:  
1 ECTS credit

#### Language of instruction:  
English

#### Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

#### Learning outcomes:  
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

#### Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Per son ec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

#### Mode of delivery:  
lectures, discussions and networking.

#### Learning activities and teaching methods:  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

#### Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

#### Recommended optional programme components:  

#### Recommended or required reading:  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

#### Assessment methods and criteria:  
Participation in lectures and discussions .  
Read more about [assessment criteria](#) at the University of Oulu webpage.

#### Grading:  
pass/fail

#### Person responsible:  
Coordinators of the University of Oulu Graduate School
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies
ECTS Credits: 3 credits

Language of instruction: English (or other, when appropriate)

Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes: After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents: 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee.

Mode of delivery: Personal work, written presentation.

Learning activities and teaching methods: Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites: The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading: Background literature of own research field.

Assessment methods and criteria: Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading: pass / fail

Person responsible: Supervisor, follow-up group and doctoral training committee

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920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

766692J: Research Plan and Seminar, Seminar, 1 op

Voi massaalo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Physics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete the course within one year of transferring to the new requirements.
The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the student knows how to present and discuss his/her research progress in oral form, and has learned how to critically discuss the research of others.

Contents:
Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, oral presentation of the research.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
Doctoral students registered in the University of Oulu Graduate School, obligatory “field-specific” studies

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
No alternative course units or course units that should be completed simultaneously

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar. Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
Pass/fail

**Person responsible:**
Responsible persons of the relevant Majors/fields of doctoral studies.

**Working life cooperation:**
No work placement period

**Other information:**
The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

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**763602J: Ph.D. Thesis in Theoretical Physics, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Field of Physics  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

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**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:** 1 ECTS

**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**  
Once per year

**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

**Course objectives:**  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

**Contents:**  
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksoavuuskia.

**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksoavuuskia.

**694521J: Research Plan and Seminar, Seminar (Science Communication), 1 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Responsible persons of the relevant Majors/fields of doctoral studies.

**Other information:**
*Type of course:* Obligatory “field-specific” studies.
*Recording of the activities and credits:* The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**694525J: Doctoral dissertation (Science Communication), 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Faculty of Humanities  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvausia.

**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvausia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS  
**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.  
**Timing:**
Once per year  
**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
**Contents:**
Written and oral presentation reports and plans.  
**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Leikkaavuudet:
Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

816624J: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: Information Processing Science DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

816669J: Doctoral Thesis in Information Processing Science, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Information Processing Science DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents: Written and oral presentation reports and plans.
Learning activities and teaching methods: Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the
doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Background literature of own research field.
Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

800703J: Research Plan and Seminar, Seminar, 1 - 4 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mathematics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.
802695J: Doctoral Thesis in Statistics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mathematics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op
Learning outcomes: 
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: 
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: 
lectures, discussions and networking.

Learning activities and teaching methods: 
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components: 

Recommended or required reading: 
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: 
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading: 
pass/fail

Person responsible: 
Coordinators of the University of Oulu Graduate School
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
**Person responsible:** Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä  

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**
766692J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Physics
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete the course within one year of transferring to the new requirements.
The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the student knows how to present and discuss his/her research progress in oral form, and has learned how to critically discuss the research of others.

Contents:
Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, oral presentation of the research.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
Doctoral students registered in the University of Oulu Graduate School, obligatory “field-specific” studies

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
No alternative course units or course units that should be completed simultaneously

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Working life cooperation:
No work placement period
Other information:
The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

765602J: Ph.D. Thesis in Astronomy, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**
- 920004J-01  Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits
Language of instruction: English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Voidaan suorittaa useasti: Kyllä
Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

419115J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS / 27 hours of work
Language of instruction:
Finnish or English, depending on the seminar
Timing:
During the next calendar year following the acceptance of Doctoral Training Plan.
Learning outcomes:
Upon completion of the course, the student is able to present his/her research plan in public.
Contents:
The theme of the student's PhD thesis.

Mode of delivery:
Independent work.
Learning activities and teaching methods:
Public seminar.
Target group:
PhD students
Prerequisites and co-requisites:
No
Recommended or required reading:
No specific materials.
Assessment methods and criteria:
Presenting a research plan.
Grading:
pass/fail
Person responsible:
Dean of Research
Working life cooperation:
No

419105J: Doctoral thesis, 0 op
For a scientific study to be accepted as a doctoral thesis, it must be based on independent research and it should add to knowledge in the field of the research of the major subject.

The doctoral thesis can be published as a single monograph or as a so-called bundled thesis, in which case it contains a number of scientific publications or manuscripts accepted for publication on the same set of problems, accompanied by a summary of them, or some other work meeting the same criteria. The summary shall present the theoretical background, methods, important results and scientifically based conclusions of the research. The publications can also include co-authored publications, if the doctoral candidate's independent share in them can be proved.

In addition to the summary, a bundled thesis shall include 3-5 international refereed articles. These publications must have been published or accepted for publication before the thesis is submitted for a preliminary examination. The shared responsibilities for a co-authored article shall be specified as early as possible, or when the article is published at the latest. Distribution of responsibility and the author's share shall be clarified in a communication to the faculty when the manuscript is submitted for assessment.

If there are more than three publications, one of the publications can be a submitted manuscript in which case the preliminary examiner can assess it similarly to a monograph or suggest corrections to be made to it if necessary. In at least three of the articles, the author shall be the only author or the primary author. In co-authored articles, the names of the authors are entered in such an order that the first name refers to the person who contributed most to writing the article. The crucial issues are the scientific level of the publications and the whole formed by them.

Preliminary examination

If the preliminary examination seminar recommends that the thesis should be submitted for an official examination, or when the supervisor finds that the deficiencies brought up have been corrected, the student shall deliver the manuscript in three copies to the Faculty Office. The faculty appoints at least two preliminary examiners who shall be from outside the faculty/department. Within three months from having been appointed, they shall submit a substantiated written statement either together or separately, proposing that permission be either given or not given to publish the thesis. The permission cannot be conditional.

In the preliminary examination, attention is also given to the language of the thesis. Before giving their statement, the preliminary examiners can discuss the deficiencies they have observed with the author of the thesis, proposing that the corrections required by publication be made before they give their statement to the Faculty Council.

Publication permission

Based on the preliminary examiners’ statement(s) and any remarks on them by the author of the thesis, the Faculty Council makes the decision on granting the permission to publish the thesis.

When the permission has been given, the thesis must be published. The theses are also published in an electronic form. The doctoral candidate shall deliver a copy of the thesis to the Faculty Office to be mounted on the noticeboard at least ten days before the public examination. The doctoral candidate shall deliver his/her thesis to the Faculty Office for inspection by the members of the Faculty Council, and in person to the dean of the faculty, ten days before the public examination. It is good manners that the candidate agrees on an appointment with the university’s Rector through his secretary (tel. 553 4071) and delivers personally a copy of the thesis to him.

The doctoral thesis can be published in the Acta Universitatis Ouluensis series, for instance, or in some other scientific series, but it can also be self-published. The publication committee for the Acta series has issued detailed instructions for publications to be published in the series http://www.kirjasto.oulu.fi/julkaisutoiminta/acta.
All doctoral theses shall include an abstract in English with keywords. In the Faculty of Education theses written in a language other than Finnish shall also include an abstract in Finnish.

**Public examination**

The Faculty Council appoints its representative (custos) for the public examination as well as one or two opponents who shall be at least qualified adjunct professors or have corresponding scientific merits. The supervisors of the doctoral candidate or the co-authors of a bundled thesis are not allowed to function as opponents. The author of the thesis is given an opportunity to give a statement on the appointment of the opponents.

The dean of the faculty fixes the date for the public examination.

Advice on practical issues related to the public examination is given at the Faculty Office and in the booklet called Ohjeita väittelijöille available at http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm.

**Assessment of doctoral theses**

Within one month from the public examination, the opponents shall give a written statement about the thesis, detailing its merits and deficiencies and recommending that the faculty either accept (or reject) the study as a thesis that justifies the doctor's degree. The opponents shall also suggest a grade for the thesis. The custos shall give the Faculty Council his/her statement on the progress of the public examination and the doctoral candidate's capacity to defend his/her thesis. If necessary, the Faculty Council can also consult the preliminary examiners of the thesis. Before the thesis is graded, the doctoral candidate is given an opportunity to comment on the statement about the grading of the thesis. On the basis of these statements and proposals, the Faculty Council makes the decision on either accepting or rejecting the thesis and on its grade. A thesis that is accepted is graded on the following scale:

- 5 = excellent
- 4 = very good
- 3 = good
- 2 = satisfactory
- 1 = sufficient

When the rejection or acceptance and the grade of a doctoral thesis (and Licentiate thesis where applicable) is considered, these are some of the issues that are taken into account:

- Significance, originality or novelty of the research setting in relation to other past and current research in the same field.
- Justification of the chosen research methods, originality of the methods used, development of new methods.
- Theoretical or practical significance of the research results.
- Familiarity with the field of research indicated by the thesis and the ability to consider one's own and others' research critically and to make clear conclusions about the results achieved.
- Consistency and clarity of presentation and other stylistic aspects.
- Capacity of the author to defend his/her thesis in the public examination.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksoa.

**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksoa.

**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish
ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

- 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail
Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

419115J: Research plan and seminar, seminar, 1 op
Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS / 27 hours of work
Language of instruction:
Finnish or English, depending on the seminar
Timing:
During the next calendar year following the acceptance of Doctoral Training Plan.
Learning outcomes:
Upon completion of the course, the student is able to present his/her research plan in public.

Contents:
The theme of the student's PhD thesis.

Mode of delivery:
Independent work.

Learning activities and teaching methods:
Public seminar.

Target group:
PhD students

Prerequisites and co-requisites:
No

Recommended or required reading:
No specific materials.

Assessment methods and criteria:
Presenting a research plan.

Grading:
pass/fail

Person responsible:
Dean of Research

Working life cooperation:
No

419105J: Doctoral thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

ECTS Credits:
160 cr

Contents:
For a scientific study to be accepted as a doctoral thesis, it must be based on independent research and it should add to knowledge in the field of the research of the major subject.

The doctoral thesis can be published as a single monograph or as a so-called bundled thesis, in which case it contains a number of scientific publications or manuscripts accepted for publication on the same set of problems, accompanied by a summary of them, or some other work meeting the same criteria. The summary shall present the theoretical background, methods, important results and scientifically based conclusions of the research. The publications can also include co-authored publications, if the doctoral candidate's independent share in them can be proved.

In addition to the summary, a bundled thesis shall include 3-5 international refereed articles. These publications must have been published or accepted for publication before the thesis is submitted for a preliminary examination. The shared responsibilities for a co-authored article shall be specified as early as possible, or when the article is published at the latest. Distribution of responsibility and the author's share shall be clarified in a communication to the faculty when the manuscript is submitted for assessment.

If there are more than three publications, one of the publications can be a submitted manuscript in which case the preliminary examiner can assess it similarly to a monograph or suggest corrections to be made to it if necessary. In at least three of the articles, the author shall be the only author or the primary author. In co-authored articles, the names of the authors are entered in such an order that the first name refers to the person who contributed most to writing the article. The crucial issues are the scientific level of the publications and the whole formed by them.

Preliminary examination

If the preliminary examination seminar recommends that the thesis should be submitted for an official examination, or when the supervisor finds that the deficiencies brought up have been corrected, the student shall deliver the
manuscript in three copies to the Faculty Office. The faculty appoints at least two preliminary examiners who shall be from outside the faculty/department. Within three months from having been appointed, they shall submit a substantiated written statement either together or separately, proposing that permission be either given or not given to publish the thesis. The permission cannot be conditional.

In the preliminary examination, attention is also given to the language of the thesis. Before giving their statement, the preliminary examiners can discuss the deficiencies they have observed with the author of the thesis, proposing that the corrections required by publication be made before they give their statement to the Faculty Council.

**Publication permission**

Based on the preliminary examiners' statement(s) and any remarks on them by the author of the thesis, the Faculty Council makes the decision on granting the permission to publish the thesis.

When the permission has been given, the thesis must be published. The theses are also published in an electronic form. The doctoral candidate shall deliver a copy of the thesis to the Faculty Office to be mounted on the noticeboard at least ten days before the public examination. The doctoral candidate shall deliver his/her thesis to the Faculty Office for inspection by the members of the Faculty Council, and in person to the dean of the faculty, ten days before the public examination. It is good manners that the candidate agrees on an appointment with the university’s Rector through his secretary (tel. 553 4071) and delivers personally a copy of the thesis to him.

The doctoral thesis can be published in the Acta Universitatis Ouluensis series, for instance, or in some other scientific series, but it can also be self-published. The publication committee for the Acta series has issued detailed instructions for publications to be published in the series http://www.kirjasto.oulu.fi/julkaisutoiminta/acta.

All doctoral theses shall include an abstract in English with keywords. In the Faculty of Education theses written in a language other than Finnish shall also include an abstract in Finnish.

**Public examination**

The Faculty Council appoints its representative (custos) for the public examination as well as one or two opponents who shall be at least qualified adjunct professors or have corresponding scientific merits. The supervisors of the doctoral candidate or the co-authors of a bundled thesis are not allowed to function as opponents. The author of the thesis is given an opportunity to give a statement on the appointment of the opponents.

The dean of the faculty fixes the date for the public examination.

Advice on practical issues related to the public examination is given at the Faculty Office and in the booklet called Ohjeita väittelijöille available at http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm.

**Assessment of doctoral theses**

Within one month from the public examination, the opponents shall give a written statement about the thesis, detailing its merits and deficiencies and recommending that the faculty either accept (or reject) the study as a thesis that justifies the doctor’s degree. The opponents shall also suggest a grade for the thesis. The custos shall give the Faculty Council his/her statement on the progress of the public examination and the doctoral candidate's capacity to defend his/her thesis. If necessary, the Faculty Council can also consult the preliminary examiners of the thesis. Before the thesis is graded, the doctoral candidate is given an opportunity to comment on the statement about the grading of the thesis. On the basis of these statements and proposals, the Faculty Council makes the decision on either accepting or rejecting the thesis and on its grade. A thesis that is accepted is graded on the following scale:

- 5 = excellent
- 4 = very good
- 3 = good
- 2 = satisfactory
- 1 = sufficient

When the rejection or acceptance and the grade of a doctoral thesis (and Licentiate thesis where applicable) is considered, these are some of the issues that are taken into account:

- Significance, originality or novelty of the research setting in relation to other past and current research in the same field.
- Justification of the chosen research methods, originality of the methods used, development of new methods.
- Theoretical or practical significance of the research results.
- Familiarity with the field of research indicated by the thesis and the ability to consider one's own and others' research critically and to make clear conclusions about the results achieved.
- Consistency and clarity of presentation and other stylistic aspects.
- Capacity of the author to defend his/her thesis in the public examination.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoikuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**Opattajat:** Jarmo Pulkkinen

**ECTS Credits:**
ECTS credits

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Backgroud literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
419115J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS / 27 hours of work
Language of instruction:
Finnish or English, depending on the seminar
Timing:
During the next calendar year following the acceptance of Doctoral Training Plan.
Learning outcomes:
Upon completion of the course, the student is able to present his/her research plan in public.
Contents:
The theme of the student's PhD thesis.

Mode of delivery:
Independent work.
Learning activities and teaching methods:
Public seminar.
Target group:
PhD students
Prerequisites and co-requisites:
No
Recommended or required reading:
No specific materials.
Assessment methods and criteria:
Presenting a research plan.
Grading:
pass/fail
Person responsible:
Dean of Research
Working life cooperation:
No

419105J: Doctoral thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

ECTS Credits:
160 cr
Contents:
For a scientific study to be accepted as a doctoral thesis, it must be based on independent research and it should add to knowledge in the field of the research of the major subject.
The doctoral thesis can be published as a single monograph or as a so-called bundled thesis, in which case it contains a number of scientific publications or manuscripts accepted for publication on the same set of problems, accompanied by a summary of them, or some other work meeting the same criteria. The summary shall present the theoretical background, methods, important results and scientifically based conclusions of the research. The publications can also include co-authored publications, if the doctoral candidate’s independent share in them can be proved.

In addition to the summary, a bundled thesis shall include 3-5 international refereed articles. These publications must have been published or accepted for publication before the thesis is submitted for a preliminary examination. The shared responsibilities for a co-authored article shall be specified as early as possible, or when the article is published at the latest. Distribution of responsibility and the author's share shall be clarified in a communication to the faculty when the manuscript is submitted for assessment.

If there are more than three publications, one of the publications can be a submitted manuscript in which case the preliminary examiner can assess it similarly to a monograph or suggest corrections to be made to it if necessary. In at least three of the articles, the author shall be the only author or the primary author. In co-authored articles, the names of the authors are entered in such an order that the first name refers to the person who contributed most to writing the article. The crucial issues are the scientific level of the publications and the whole formed by them.

**Preliminary examination**

If the preliminary examination seminar recommends that the thesis should be submitted for an official examination, or when the supervisor finds that the deficiencies brought up have been corrected, the student shall deliver the manuscript in three copies to the Faculty Office. The faculty appoints at least two preliminary examiners who shall be from outside the faculty/department. Within three months from having been appointed, they shall submit a substantiated written statement either together or separately, proposing that permission be either given or not given to publish the thesis. The permission cannot be conditional.

In the preliminary examination, attention is also given to the language of the thesis. Before giving their statement, the preliminary examiners can discuss the deficiencies they have observed with the author of the thesis, proposing that the corrections required by publication be made before they give their statement to the Faculty Council.

**Publication permission**

Based on the preliminary examiners’ statement(s) and any remarks on them by the author of the thesis, the Faculty Council makes the decision on granting the permission to publish the thesis.

When the permission has been given, the thesis must be published. The theses are also published in an electronic form. The doctoral candidate shall deliver a copy of the thesis to the Faculty Office to be mounted on the noticeboard at least ten days before the public examination. The doctoral candidate shall deliver his/her thesis to the Faculty Office for inspection by the members of the Faculty Council, and in person to the dean of the faculty, ten days before the public examination. It is good manners that the candidate agrees on an appointment with the university's Rector through his secretary (tel. 553 4071) and delivers personally a copy of the thesis to him.

The doctoral thesis can be published in the Acta Universitatis Ouluensis series, for instance, or in some other scientific series, but it can also be self-published. The publication committee for the Acta series has issued detailed instructions for publications to be published in the series [http://www.kirjasto.oulu.fi/julkaisutoiminta/acta](http://www.kirjasto.oulu.fi/julkaisutoiminta/acta).

All doctoral theses shall include an abstract in English with keywords. In the Faculty of Education theses written in a language other than Finnish shall also include an abstract in Finnish.

**Public examination**

The Faculty Council appoints its representative (custos) for the public examination as well as one or two opponents who shall be at least qualified adjunct professors or have corresponding scientific merits. The supervisors of the doctoral candidate or the co-authors of a bundled thesis are not allowed to function as opponents. The author of the thesis is given an opportunity to give a statement on the appointment of the opponents.

The dean of the faculty fixes the date for the public examination.

Advice on practical issues related to the public examination is given at the Faculty Office and in the booklet called [Ohjeita väittelijöille](http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm) available at [http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm](http://www.hallinto.oulu.fi/viestin/yliopistolaisille/Vaitosohje.htm).
Assessment of doctoral theses

Within one month from the public examination, the opponents shall give a written statement about the thesis, detailing its merits and deficiencies and recommending that the faculty either accept (or reject) the study as a thesis that justifies the doctor's degree. The opponents shall also suggest a grade for the thesis. The custos shall give the Faculty Council his/her statement on the progress of the public examination and the doctoral candidate's capacity to defend his/her thesis. If necessary, the Faculty Council can also consult the preliminary examiners of the thesis. Before the thesis is graded, the doctoral candidate is given an opportunity to comment on the statement about the grading of the thesis. On the basis of these statements and proposals, the Faculty Council makes the decision on either accepting or rejecting the thesis and on its grade. A thesis that is accepted is graded on the following scale:

- 5 = excellent
- 4 = very good
- 3 = good
- 2 = satisfactory
- 1 = sufficient

When the rejection or acceptance and the grade of a doctoral thesis (and Licentiate thesis where applicable) is considered, these are some of the issues that are taken into account:

- Significance, originality or novelty of the research setting in relation to other past and current research in the same field.
- Justification of the chosen research methods, originality of the methods used, development of new methods.
- Theoretical or practical significance of the research results.
- Familiarity with the field of research indicated by the thesis and the ability to consider one's own and others' research critically and to make clear conclusions about the results achieved.
- Consistency and clarity of presentation and other stylistic aspects.
- Capacity of the author to defend his/her thesis in the public examination.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksonkuvausia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksonkuvausia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**


**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi
**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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<tr>
<td>920004J-01</td>
<td>Research Plan and Seminar, Research Plan</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following therecommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail
Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722001J: Research plan and seminar, seminar, 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722590J: MAN&ORG, Doctoral Dissertation, 0 op
Opiskelumuoto: Post-graduate Studies
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet:** English

**ECTS Credits:**  
1 ECTS credit  
**Language of instruction:** English  
**Timing:**  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.  
**Learning outcomes:**  
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.  
**Contents:**  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).  
**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.  
**Mode of delivery:**  
lectures, discussions and networking.  
**Learning activities and teaching methods:**  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.  
**Prerequisites and co-requisites:**  
The student must have been admitted to the University of Oulu Graduate School.  
**Recommended optional programme components:**

**Recommended or required reading:**  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.  
**Assessment methods and criteria:**  
Participation in lectures and discussions .  
Read more about assessment criteria at the University of Oulu webpage.  
**Grading:**  
pass/fail  
**Person responsible:**  
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksojakuvausia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722010J: Business Theory and Thought, 6 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op
Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722001J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722690J: IB, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the
doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about [assessment criteria](at the University of Oulu webpage.)

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722010J: Business Theory and Thought, 6 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.
722001J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksovauksia.

722190J: ACC, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiele: Finnish

Ei opintojaksovauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksovauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
 obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaalo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaalo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiellet: Finnish

Ei opintojaksokuvauksia.

722010J: Business Theory and Thought, 6 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
920012J: Doctoral Training Plan, 3 op

Ei opintojaksokuvauksia.

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvausia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

722001J: Research plan and seminar, seminar, 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02  Research Plan and Seminar, seminar  1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvausia.

722490J: MAR, Doctoral Dissertation, 0 op
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Learning outcomes: 
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: 
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: 
lectures, discussions and networking.

Learning activities and teaching methods: 
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: 
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: 
Participation in lectures and discussions . Read more about assessment criteria at the University of Oulu webpage.

Grading: 
pass/fail

Person responsible: 
Coordinators of the University of Oulu Graduate School
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also
able of formulating ethical research plans and responding to ethical challenges by applying key ethical theories
and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines,
processes for dealing with research misconduct, and processes for applying research license or ethical review.
Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions
and choices influence society and research community.
Contents:
Ethical theory and ethical problem solving. Ethics in research planning. Conflict of interest. Data collection. Research
licences and ethical review. Data management. Ethics and working with others. Research misconduct. Ethics and
PhD supervision. Ethics and research funding. Plagiarism and misappropriation. Authorship and scientific publishing.
Ethical problems characteristic to different sciences.
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory
Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance
of lectures.
Grading:
pass/fail
Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722010J: Business Theory and Thought, 6 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Voidaan suoritaa useasti: Kyllä

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722001J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722990J: FIN, Doctoral dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).  

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.  

**Mode of delivery:**
lectures, discussions and networking.  

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.  

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.  

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.  

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.  

**Grading:**
pass/fail  

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksonkuvausia.

**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksonkuvausia.

**920002J: Scientific Research and Ethics, 2 op**
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECRS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722010J: Business Theory and Thought, 6 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
LeikkaavuuDET:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Backgroung literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
722001J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722390J: ECON, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review.
Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

**Voimassaolo:** 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:

920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory “field-specific” studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group: presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**046034J: Research plan and seminar, seminar, 1 op**

**Voimassaolo:** 01.01.2013 -

**Opiskelumuoto:** Post-graduate Studies
046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Biochemistry and Molecular Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksojaksojen kulku.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojaksojen kulku.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coorninators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaalo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokeuksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Leikkaavuudet:
Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
400

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

450001J: Architecture, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuysikkö: Oulu School of Architecture

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about [assessment criteria](https://oulu_webpage.com) at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksojauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op
VOIDAAN SUORITTAU USEASTI: Kyllä

Ei opintojaksokuvauksia.

**460001J: Mechanical Engineering, thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Field of Mechanical Engineering  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:** 1 ECTS  
**Language of instruction:** Language of meeting as appropriate, progress reports in English or Finnish.  
**Timing:** Once per year  
**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

**Course objectives:**  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

**Contents:**  
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**  
Annual meetings.

**Assessment methods and criteria:**  
Evaluation of progress reports and plans.  
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**  
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass/fail

Person responsible: Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits
Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suoritaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:  
pass / fail

Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit

Language of instruction:  
English

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U.; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
 VOIDAAAN SUORITTAА USEASTI: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory “field-specific” studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Backgound literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

pass / fail

**Person responsible:**

Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**520023J: Research Plan and Seminar, Seminar, 1 op**

**Voimassaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Electrical Engineering DP  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
920004J-02 Research Plan and Seminar, seminar 1.0 op  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**520001J: Electrical Engineering, thesis, 0 op**
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: ECTS credits
Language of instruction: English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Field of Mechanical Engineering  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:  
920004J-02 Research Plan and Seminar, seminar 1.0 op  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Field of Mechanical Engineering  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: Finnish
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English
ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery: lectures, discussions and networking.
Learning activities and teaching methods: obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions. Read more about assessment criteria at the University of Oulu webpage.
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
Voimassaolo: 01.08.2013 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumoto: Post-graduate Studies
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits: 
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Mode of delivery: Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods: Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria: Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading: pass/fail
Person responsible: Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information: Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojulkaisuja.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of
The doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.
460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Field of Mechanical Engineering  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish  
Leikkaavuudet:  
920004J-02 Research Plan and Seminar, seminar 1.0 op  
Voidaan suorittaa useasti: Kyllä  
Ei opintojaksojakoauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Field of Mechanical Engineering  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kiele: Finnish  
Ei opintojaksojakoauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish  
Ei opintojaksojakoauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish  
ECTS Credits: 1 ECTS  
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.  
Timing: Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:

Mode of delivery:  
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:  
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:  
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:  
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:  
pass/fail

Person responsible:  
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:  
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

Voimassaolo: 01.08.2014 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course
**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojakokuvauksia.
920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojakoottelia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksojakoottelia.
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**460023J: Research Plan and Seminar, Seminar, 1 op**

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass / Fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass/fail
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: ECTS credits
Language of Instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Background literature of own research field.
Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

470023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Process and Environmental Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

470001J: Process Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Process and Environmental Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksonkuvausia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksonkuvausia.

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**920002J: Scientific Research and Ethics, 2 op**
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**460023J: Research Plan and Seminar, Seminar, 1 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** Field of Mechanical Engineering

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Leikkaavuudet:
455
920004J-02  Research Plan and Seminar, seminar  1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op

920002J: Scientific Research and Ethics, 2 op
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits
**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä
Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

2000017: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligate component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
Lectures, discussions and networking.

Learning activities and teaching methods:
Obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also
capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories
and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines,
processes for dealing with research misconduct, and processes for applying research license or ethical review.
Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions
and choices influence society and research community.
Contents:
Ethical theory and ethical problem solving. Ethics in research planning. Conflict of interest. Data collection. Research
licences and ethical review. Data management. Ethics and working with others. Research misconduct. Ethics and
PhD supervision. Ethics and research funding. Plagiarism and misappropriation. Authorship and scientific publishing.
Ethical problems characteristic to different sciences.
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory
Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance
of lectures.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
**920012J: Doctoral Training Plan, 3 op**

**Voi massaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Leikkaavuudet:  
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**  
Obligatory "field-specific" studies

**ECTS Credits:**  
3 credits

**Language of instruction:**  
English (or other, when appropriate)

**Timing:**  
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**  
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**  
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**  
Personal work, written presentation.

**Learning activities and teaching methods:**  
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**  
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**  
Background literature of own research field.

**Assessment methods and criteria:**  
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**520023J: Research Plan and Seminar, Seminar, 1 op**

Voimassaolo: 01.01.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Electrical Engineering DP  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:  
920004J-02 Research Plan and Seminar, seminar 1.0 op  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

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**520001J: Electrical Engineering, thesis, 0 op**
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksoenvaiksuksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoenvaiksuksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiellet: Finnish  
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Jarmo Pulkkinen  
Opintokohteen kiellet: Finnish

ECTS Credits:  
ECTS credits

Language of instruction:  
English/Finnish

Timing:  
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:  
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:  

Mode of delivery:  
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:  
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:  
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:  
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:  
pass/fail

Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksovaluoksi.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksovaluoksi.

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**920021J: Research Group, 0 op**
Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: Electrical Engineering DP

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuysikkö: Electrical Engineering DP

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish
ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kieleet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniougs/node/42690](http://www.oulu.fi/uniougs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuyksikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish
920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits: 1 ECTS credit

Language of instruction: English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintojaksokuvauksia: Ei

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of
hte doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Backgroun literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

*Opiskelumuoto:* Post-graduate Studies

*Laji:* Course

*Vastuuysikkö:* University of Oulu Graduate School, UniOGS

*Arvostelu:* 1 - 5, pass, fail

*Opintokohteen kielet:* Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

*Opiskelumuoto:* Post-graduate Studies

*Laji:* Course

*Vastuuysikkö:* University of Oulu Graduate School, UniOGS

*Arvostelu:* 1 - 5, pass, fail

*Opintokohteen kielet:* Finnish

*Voidaan suorittaa useasti:* Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

*Opiskelumuoto:* Post-graduate Studies

*Laji:* Course

*Vastuuysikkö:* University of Oulu Graduate School, UniOGS

*Arvostelu:* 1 - 5, pass, fail

*Opintokohteen kielet:* Finnish

Ei opintojaksokuvauksia.
522023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksonkuvauksia.

522001J: Telecommunication Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksonkuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduateStudies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status: Obligatory "field-specific" studies

ECTS Credits: 3 credits

Language of instruction: English (or other, when appropriate)

Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes: After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents: 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery: Personal work, written presentation.

Learning activities and teaching methods: Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites: The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading: Background literature of own research field.

Assessment methods and criteria: Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading: pass / fail

Person responsible: Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuyksikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuyksikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**521023J: Research Plan and Seminar, Seminar, 1 op**

Voimassaolo: 01.01.2010 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuyksikkö: Computer Science and Engineering DP  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:  
  920004J-02 Research Plan and Seminar, seminar 1.0 op  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**521001J: Information Engineering, thesis, 0 op**

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuyksikkö: Computer Science and Engineering DP  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 -
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coordinators of UniOGS.  

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English  

ECTS Credits:  
1 ECTS credit  
Language of instruction:  
English  
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksojakuvausia.

920022J: Nomination of follow-up group, 0 op

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
ECTS credits  
**Language of instruction:**  
English/Finnish  
**Timing:**  
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**  
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**  

**Mode of delivery:**  
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**  
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**  
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**  
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**  
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.  
**Grading:**  
pass/fail

**Person responsible:**  
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**  
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

### 920019J: Permission to defend the thesis, 0 op
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920018J: Pre-examination, 0 op
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

### 920021J: Research Group, 0 op
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 550023J: Research Plan and Seminar, Seminar, 1 op
**Voimassaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Industrial Engineering and Management
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

550001J: Industrial Engineering and Management, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Industrial Engineering and Management
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass/fail
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: ECTS credits
Language of Instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname@oulu.fi)

Other information:
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Backgroud literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielel: Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielel: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoaktuuksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory “field-specific” studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

480023J: Research Plan and Seminar, Seminar, 1 - 4 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Process and Environmental Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

480001J: Environmental Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Process and Environmental Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op

920002J: Scientific Research and Ethics, 2 op
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

- 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits
Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvosstelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvosstelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä
**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksojkuvausia.

**046034J: Research plan and seminar, seminar, 1 op**

Voimassaolo: 01.01.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Faculty of Medicine  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:  
  920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksojkuvausia.

**046002J: Dentistry, thesis, 0 op**

Voimassaolo: 01.08.2005 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Dentistry  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: English

Ei opintojaksojkuvausia.

**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksojkuvausia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions . Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory “field-specific” studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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### 920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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### 046034J: Research plan and seminar, seminar, 1 op

**Voimassaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Faculty of Medicine  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

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### 046002J: Dentistry, thesis, 0 op
**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

ECTS Credits: 1 ECTS 
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish. 
Timing: Once per year 
Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training. 
Course objectives: Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training. 
Contents: Written and oral presentation reports and plans. 
Learning activities and teaching methods: Annual meetings. 
Assessment methods and criteria: Evaluation of progress reports and plans. Read more about assessment criteria at the University of Oulu webpage. 
Grading: pass / fail 
Person responsible: Chair of the Follow-up Group and Coorninators of UniOGS.

**920001J: Introduction to Doctoral Training, 1 op**

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies 
Laji: Defence of the Ph. D. thesis 
Vastuuysikkö: Dentistry 
Arvostelu: suor (pass), oiv (excellent), khy (excellent) 
Opintokohteen kielet: English 

Ei opintojaksokuvauksia.
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**
- 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:** Obligatory "field-specific" studies
**ECTS Credits:** 3 credits
**Language of instruction:** English (or other, when appropriate)
**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about [assessment criteria](https://www.oulu.fi) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**
046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-02  Research Plan and Seminar, seminar  1.0 op

Ei opintojaksokuvauksia.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 - 
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies

Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kiele:** Finnish
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kiele:** Finnish

**ECTS Credits:**
ECTS credits

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Puikkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
  920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Backgroud literature of own research field.
Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**046034J: Research plan and seminar, seminar, 1 op**

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

**046001J: Medicine, thesis, 0 op**

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskeluumo: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskeluumo: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskeluumo: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaalo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaalo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

**Language of instruction:**

English/Finnish

**Timing:**

The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**

After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**


**Mode of delivery:**

Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**

Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**

The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**

Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**

Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**

pass/fail

**Person responsible:**

Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**

Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. 

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:  1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:  1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassacolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaalo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**046034J: Research plan and seminar, seminar, 1 op**

**Voi massaolo:** 01.01.2013 -  
**Opiskelumuoto:** Post-graduate Studies
Laji: Course  
Vastuuysikkö: Faculty of Medicine  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

Leikkaavuudet:  
920004J-02 Research Plan and Seminar, seminar 1.0 op  

Ei opintojaksokuvauksia.

046001J: Medicine, thesis, 0 op  

Voimassaolo: 01.08.2005 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Medicine  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: English  

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op  

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op  

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**

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**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920022J: Nomination of follow-up group, 0 op**

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920002J: Scientific Research and Ethics, 2 op**

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

**ECTS Credits:**
ECTS credits

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

Voimaasalo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

Voimaasalo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:
Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOFS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

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920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOFS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coorninators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
**Opiskelu muoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuu yksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
ECTS credits
**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

### 920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 046034J: Research plan and seminar, seminar, 1 op

**Voimassaolo:** 01.01.2013 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** Faculty of Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

920004J-02 Research Plan and Seminar, seminar 1.0 op
356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.
**920001J: Introduction to Doctoral Training, 1 op**

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

**920014J: Midterm Report of Doctoral Training, 0 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.
**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**046034J: Research plan and seminar, seminar, 1 op**

Voimassaolo: 01.01.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Faculty of Medicine  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

**356001J: Health Sciences, thesis, 0 op**

Voimassaolo: 01.08.2005 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Health Sciences  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoa.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksoa.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction: English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/unioogs/node/42690](http://www.oulu.fi/unioogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 - 
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voitetaan suorittaa useasti: Kyllä

Ei opintojaksojauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Biochemistry and Molecular Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaajo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:
Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

**Voimassaolo:** 01.08.2014 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course
during their first year of doctoral training. All part-time students must complete the course before the end of the
second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights
before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS
in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The
student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral
training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and
study plans. The student should also include a brief outline of his/her career development plan; the presentation of
hte doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up
Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up
Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group;
presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-
up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and
must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Background literature of own research field.
Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the
doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full
doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

046034J: Research plan and seminar, seminar, 1 op
Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: Faculty of Medicine
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar  1.0 op

Ei opintojaksokuvauksia.

046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op
Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Faculty of Biochemistry and Molecular Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoon kuuluvia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/unioogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

700447J: Research Plan and Seminar, Seminar (History), 1 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

700442J: Doctoral dissertation (History), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. **The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). **The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laaja-oppimisympäristö:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920022J: Nomination of follow-up group, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laaja-oppimisympäristö:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish
**920002J: Scientific Research and Ethics, 2 op**

**Voimassaajo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
ECTS credits  
**Language of instruction:**  
English/Finnish  
**Timing:**  
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.  
**Learning outcomes:**  
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**  

**Mode of delivery:**  
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**  
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**  
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**  
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**  
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**  
pass/fail

**Person responsible:**  
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**  
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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920019J: **Permission to defend the thesis, 0 op**

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<thead>
<tr>
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Ei opintojaksokuvauksia.

920018J: **Pre-examination, 0 op**

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<td>Laji</td>
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<td>Arvostelu</td>
<td>1 - 5, pass, fail</td>
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Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: **Research Group, 0 op**

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Ei opintojaksokuvauksia.

700447J: **Research Plan and Seminar, Seminar (History), 1 op**

<table>
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<th>01.08.2013 -</th>
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</thead>
<tbody>
<tr>
<td>Opiskelumuoto</td>
<td>Post-graduate Studies</td>
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</table>
Laji: Course
Vastuuysikkö: Faculty of Humanities
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:
1 ECTS

Language of instruction:
Finnish or English (or other, when appropriate)

Timing:
All doctoral students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS must complete the course within one year of transferring to the new requirements. Please note, the students should complete “Research Plan & Seminar, Plan” as part of their application to transfer to the new requirements.

Learning outcomes:
After the course the doctoral student knows how to present and discuss his/her research in oral form and has learned how to critically discuss the research of others.

Mode of delivery:
Personal work, oral presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Learning activities and teaching methods:
Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Public presentation of the research plan/results in a Research (Plan) Seminar.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Responsible persons of the relevant Majors/fields of doctoral studies.

Other information:
Type of course: Obligatory “field-specific” studies.
Recording of the activities and credits: The study credit is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

700442J: Doctoral dissertation (History), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiele: Finnish
Ei opintokaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohde: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**771608J: Research Plan and Seminar, Seminar, Geosciences, 1 op**

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies
920004J-02  Research Plan and Seminar, seminar  1.0 op

Ei opintojaksokuvauksia.

771603J: Ph. D. thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Mining School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about **assessment criteria** at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**750662J: Research Plan and Seminar, Seminar, 1 - 2 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** Field of Biology

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Muotka, Timo Tapani

**Opintokohteen kielet:** English

**Leikkaavuudet:**

920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS credits / 27 hours of work.

Language of instruction:
English.

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete parts 1 & 2 of the course during their first year of doctoral training. Part 3 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1, 2 & 3 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete parts 1 & 2 of the course as part of their application to transfer to the new requirements. Part 3 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes three parts:
Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part three: Public presentation of the research in the form of a public Research Plan Seminar
Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

Mode of delivery:
Personal work, written and oral presentations

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
-

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

Recording of the activities and credits: The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student). Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass / fail.

Person responsible:
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

Working life cooperation:
No.

Other information:
750671J: Ph.D. thesis in biology, 0 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Biology
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English
Leikkaavuudet:
755617J Ph.D. thesis in animal ecology 180.0 op
755619J Ph.D. thesis in animal physiology 180.0 op
756635J Ph.D. thesis in plant ecology 180.0 op
756637J Ph.D. thesis in plant physiology 180.0 op
757609J Ph.D. thesis in genetics 180.0 op

ECTS Credits:
Not defined as credit points.
Language of instruction:
Finnish/ English.
Timing:
PhD degree, 4 th year.
Learning outcomes:
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.
Contents:
Scientific publications and a summary or a monograph.
Mode of delivery:
Independent research supported by a supervisor.
Learning activities and teaching methods:
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.
Target group:
Compulsory to Ph.D. students.
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended optional programme components:
-
Recommended or required reading:
Background literature of the own research field.
Assessment methods and criteria:
Scientific publications and a summary or a monograph.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
Pass with distinction / pass / fail.
Person responsible:
Supervisor, follow-up group and doctoral training committee.
Working life cooperation:
No
Other information:
-

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksovauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovauksia.
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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### 920019J: Permission to defend the thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920018J: Pre-examination, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

### 920021J: Research Group, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 750662J: Research Plan and Seminar, Seminar, 1 - 2 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course
Vastuysikkö: Field of Biology
Arvostelu: 1 - 5, pass, fail
Opettajat: Muotka, Timo Tapani
Opintokohteen kielet: English
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS credits / 27 hours of work.
Language of instruction:
English.
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete parts 1 & 2 of the course during their first year of doctoral training. Part 3 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1, 2 & 3 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete parts 1 & 2 of the course as part of their application to transfer to the new requirements. Part 3 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes three parts:
Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part three: Public presentation of the research in the form of a public Research Plan Seminar
Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

Mode of delivery:
Personal work, written and oral presentations

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

Recording of the activities and credits: The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student). Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass / fail.
Person responsible:
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

Working life cooperation:
No.

Other information:

750671J: Ph.D. thesis in biology, 0 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Biology
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Leikkaavuudet:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>755617J</td>
<td>Ph.D. thesis in animal ecology</td>
<td>180.0 op</td>
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<td>755619J</td>
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<td>756635J</td>
<td>Ph.D. thesis in plant ecology</td>
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</tr>
<tr>
<td>756637J</td>
<td>Ph.D. thesis in plant physiology</td>
<td>180.0 op</td>
</tr>
<tr>
<td>757609J</td>
<td>Ph.D. thesis in genetics</td>
<td>180.0 op</td>
</tr>
</tbody>
</table>

ECTS Credits:
Not defined as credit points.

Language of instruction:
Finnish/ English.

Timing:
PhD degree, 4 th year.

Learning outcomes:
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.

Contents:
Scientific publications and a summary or a monograph.

Mode of delivery:
Independent research supported by a supervisor.

Learning activities and teaching methods:
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:

Recommended or required reading:
Background literature of the own research field.

Assessment methods and criteria:
Scientific publications and a summary or a monograph.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass with distinction / pass / fail.

Person responsible:
Supervisor, follow-up group and doctoral training committee.

Working life cooperation:
No.

Other information:
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  
Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
Contents:  
Written and oral presentation reports and plans.  
Learning activities and teaching methods:  
Annual meetings.  
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kiele: English
ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery: lectures, discussions and networking.
Learning activities and teaching methods: obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria: Participation in lectures and discussions . Read more about assessment criteria at the University of Oulu webpage. Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op
Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits: ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific” studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of
he doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Biology
Arvostelu: 1 - 5, pass, fail
Opettajat: Muotka, Timo Tapani
Opintokohteen kielet: English

Opettauksen leikkaavuudet: 920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits: 1 ECTS credits / 27 hours of work.

Language of instruction: English.

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete parts 1 & 2 of the course during their first year of doctoral training. Part 3 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1, 2 & 3 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete parts 1 & 2 of the course as part of their application to transfer to the new requirements. Part 3 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes three parts:
- Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
- Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
- Part three: Public presentation of the research in the form of a public Research Plan Seminar

Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

Mode of delivery:
Personal work, written and oral presentations

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
-

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

Recording of the activities and credits: The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for
part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student). Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
Pass / fail.

**Person responsible:**
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

**Working life cooperation:**
No.

**Other information:**
-

750671J: Ph.D. thesis in biology, 0 op

**Voimassaolo:** 01.08.2015 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Field of Biology

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

**Leikkaavuudet:**
- 755617J Ph.D. thesis in animal ecology 180.0 op
- 755619J Ph.D. thesis in animal physiology 180.0 op
- 756635J Ph.D. thesis in plant ecology 180.0 op
- 756637J Ph.D. thesis in plant physiology 180.0 op
- 757609J Ph.D. thesis in genetics 180.0 op

**ECTS Credits:**
Not defined as credit points.

**Language of instruction:**
Finnish/ English.

**Timing:**
PhD degree, 4 th year.

**Learning outcomes:**
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.

**Contents:**
Scientific publications and a summary or a monograph.

**Mode of delivery:**
Independent research supported by a supervisor.

**Learning activities and teaching methods:**
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.

**Target group:**
Compulsory to Ph.D. students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended optional programme components:**
-

**Recommended or required reading:**
Background literature of the own research field.

**Assessment methods and criteria:**
Scientific publications and a summary or a monograph.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
Pass with distinction / pass / fail.
Person responsible: Supervisor, follow-up group and doctoral training committee.
Working life cooperation: No
Other information: -

920017J: First Follow-up Group Meeting, 0 op
Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading: pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit

Language of instruction:  
English

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:  
lectures, discussions and networking.

Learning activities and teaching methods:  
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:  

Recommended or required reading:  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:  
Participation in lectures and discussions .

Read more about assessment criteria at the University of Oulu webpage.

Grading:  
pass/fail

Person responsible:  
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvausia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status: Obligatory "field-specific" studies
ECTS Credits: 3 credits
Language of instruction: English (or other, when appropriate)
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Biology
Arvostelu: 1 - 5, pass, fail
Opettajat: Muolka, Timo Tapani
Opintokohteen kielet: English

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:
1 ECTS credits / 27 hours of work.

Language of instruction:
English.

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete parts 1 & 2 of the course during their first year of doctoral training. Part 3 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1, 2 & 3 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete parts 1 & 2 of the course as part of their application to transfer to the new requirements. Part 3 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes three parts:
Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part three: Public presentation of the research in the form of a public Research Plan Seminar
Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

Mode of delivery:
Personal work, written and oral presentations

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
- Recommended or required reading:
Background literature of own research field.
Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

Recording of the activities and credits: The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student).
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass / fail.

Person responsible:
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

Working life cooperation:
No.

Other information:
-

750671J: Ph.D. thesis in biology, 0 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Biology
Arvostelu: suk (pass), oiv (excellent), khy (excellent)
Opintokohde: English

Leikkaavuudet:
755617J Ph.D. thesis in animal ecology 180.0 op
755619J Ph.D. thesis in animal physiology 180.0 op
756635J Ph.D. thesis in plant ecology 180.0 op
756637J Ph.D. thesis in plant physiology 180.0 op
757609J Ph.D. thesis in genetics 180.0 op

ECTS Credits:
Not defined as credit points.

Language of instruction:
Finnish/ English.

Timing:
PhD degree, 4 th year.

Learning outcomes:
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.

Contents:
Scientific publications and a summary or a monograph.

Mode of delivery:
Independent research supported by a supervisor.

Learning activities and teaching methods:
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
-

Recommended or required reading:
Background literature of the own research field.

Assessment methods and criteria:
Scientific publications and a summary or a monograph. Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass with distinction / pass / fail.

Person responsible:
Supervisor, follow-up group and doctoral training committee.

Working life cooperation:
No

Other information:
-

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans. Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920022J: Nomination of follow-up group, 0 op

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Ei opintojaksokuvauksia.
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

  920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.
**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

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**750662J: Research Plan and Seminar, Seminar, 1 - 2 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Field of Biology  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Muotka, Timo Tapani  
**Opintokohteen kielet:** English  

**ECTS Credits:**  
1 ECTS credits / 27 hours of work.

**Language of instruction:**  
English.

**Timing:**

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete parts 1 & 2 of the course during their first year of doctoral training. Part 3 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1, 2 & 3 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete parts 1 & 2 of the course as part of their application to transfer to the new requirements. Part 3 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**

After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**

The course includes three parts:

- Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
- Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
- Part three: Public presentation of the research in the form of a public Research Plan Seminar

Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

**Mode of delivery:**

Personal work, written and oral presentations

**Learning activities and teaching methods:**

Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

**Target group:**

Compulsory to Ph.D. students.
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
-

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

Recording of the activities and credits: The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student).

Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass / fail.

Person responsible:
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

Working life cooperation:
No.

Other information:
-

750671J: Ph.D. thesis in biology, 0 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysiksikkö: Field of Biology
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Leikkaavuudet:
755617J Ph.D. thesis in animal ecology 180.0 op
755619J Ph.D. thesis in animal physiology 180.0 op
756635J Ph.D. thesis in plant ecology 180.0 op
756637J Ph.D. thesis in plant physiology 180.0 op
757609J Ph.D. thesis in genetics 180.0 op

ECTS Credits:
Not defined as credit points.

Language of instruction:
Finnish/ English.

Timing:
PhD degree, 4 th year.

Learning outcomes:
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.

Contents:
Scientific publications and a summary or a monograph.

Mode of delivery:
Independent research supported by a supervisor.

Learning activities and teaching methods:
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.

Target group:
Compulsory to Ph.D. students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended optional programme components:**
- 

**Recommended or required reading:**
Background literature of the own research field.

**Assessment methods and criteria:**
Scientific publications and a summary or a monograph.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
Pass with distinction / pass / fail.

**Person responsible:**
Supervisor, follow-up group and doctoral training committee.

**Working life cooperation:**
No

**Other information:**
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**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

Read more about assessment criteria at the University of Oulu webpage.
**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaalo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

**Status:**
Obligatory "field-specific" studies
ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Biology
Arvostelu: 1 - 5, pass, fail
Opettajat: Muotka, Timo Tapani
Opintokohteen kielet: English

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Etsi suorittaa useasti: Kyllä

ECTS Credits: 1 ECTS credits / 27 hours of work.
Language of instruction: English.

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete parts 1 & 2 of the course during their first year of doctoral training. Part 3 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1, 2 & 3 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete parts 1 & 2 of the course as part of their application to transfer to the new requirements. Part 3 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes three parts:
Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part three: Public presentation of the research in the form of a public Research Plan Seminar
Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

Mode of delivery:
Personal work, written and oral presentations

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

**Target group:**
Compulsory to Ph.D. students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended optional programme components:**

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

**Recording of the activities and credits:**
The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student). Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
Pass / fail.

**Person responsible:**
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

**Working life cooperation:**
No.

**Other information:**

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**750671J: Ph.D. thesis in biology, 0 op**

**Voimassaolo:** 01.08.2015 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Field of Biology

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

**Leikkaavuudet:**

- 755617J Ph.D. thesis in animal ecology  180.0 op
- 755619J Ph.D. thesis in animal physiology  180.0 op
- 756635J Ph.D. thesis in plant ecology  180.0 op
- 756637J Ph.D. thesis in plant physiology  180.0 op
- 757609J Ph.D. thesis in genetics  180.0 op

**ECTS Credits:**
Not defined as credit points.

**Language of instruction:**
Finnish/ English.

**Timing:**
PhD degree, 4 th year.

**Learning outcomes:**
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.
Contents:
Scientific publications and a summary or a monograph.

Mode of delivery:
Independent research supported by a supervisor.

Learning activities and teaching methods:
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.

Target group:
Compulsory to Ph.D. students.

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended optional programme components:
- 

Recommended or required reading:
Background literature of the own research field.

Assessment methods and criteria:
Scientific publications and a summary or a monograph.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
Pass with distinction / pass / fail.

Person responsible:
Supervisor, follow-up group and doctoral training committee.

Working life cooperation:
No

Other information:
- 

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintohoiteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative databases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U: Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

PhD supervision. Ethics and research funding. Plagiarism and misappropriation. Authorship and scientific publishing. Ethical problems characteristic to different sciences.

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoenkuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish  
Ei opintojaksokuvauksia.

750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Field of Biology  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: English  
Leikkaavuudet:  
920004J-02 Research Plan and Seminar, seminar 1.0 op  
Ei opintojaksokuvauksia.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes three parts:
Part one: The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan;
Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part three: Public presentation of the research in the form of a public Research Plan Seminar
Parts 1 & 2, together, comprise 3 cr. Part 3 comprises 1 cr.

**Mode of delivery:**
Personal work, written and oral presentations

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar). Attendance of at least 10 seminars, of which two as an opponent.

**Target group:**
Compulsory to Ph.D. students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended optional programme components:**
- 

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

**Recording of the activities and credits:** The three study credits for the completion of parts 1 and 2 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 3 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar (based on list of attended seminars made by the student).

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
Pass / fail.

**Person responsible:**
Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Responsible persons of the relevant Majors/fields of doctoral studies, Prof. Timo Muotka and Dr. Laura Kvist.

**Working life cooperation:**
No.

**Other information:**
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**750671J: Ph.D. thesis in biology, 0 op**

**Voimassaolo:** 01.08.2015 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Field of Biology

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

**Leikkaavuudet:**

- 755617J Ph.D. thesis in animal ecology  180.0 op
- 755619J Ph.D. thesis in animal physiology  180.0 op
- 756635J Ph.D. thesis in plant ecology  180.0 op
- 756637J Ph.D. thesis in plant physiology  180.0 op
- 757609J Ph.D. thesis in genetics  180.0 op

**ECTS Credits:**
Not defined as credit points.

**Language of instruction:**
Finnish/ English.

**Timing:**
PhD degree, 4 th year.

**Learning outcomes:**
The student is able to plan and perform independent scientific research at her/his own study field. She/he has good knowledge of the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.

**Contents:**
Scientific publications and a summary or a monograph.

**Mode of delivery:**
Independent research supported by a supervisor.

**Learning activities and teaching methods:**
Planning and performing research, reporting it in the form of scientific publication and a summary or a monograph.

**Target group:**
Compulsory to Ph.D. students.

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended optional programme components:**
- 

**Recommended or required reading:**
Background literature of the own research field.

**Assessment methods and criteria:**
Scientific publications and a summary or a monograph. Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
Pass with distinction / pass / fail.

**Person responsible:**
Supervisor, follow-up group and doctoral training committee.

**Working life cooperation:**
No

**Other information:**
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**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

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920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoäyriä.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelu to: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelu to: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.
920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaoloto: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaolo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
ECTS credits
**Language of instruction:**
English/Finnish
**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

920004J-01  Research Plan and Seminar, Research Plan  3.0 op

**Status:**  
Obligatory "field-specific" studies

**ECTS Credits:**  
3 credits

**Language of instruction:**  
English (or other, when appropriate)

**Timing:**  
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**  
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**  
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**  
Personal work, written presentation.

**Learning activities and teaching methods:**  
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**  
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**  
Background literature of own research field.

**Assessment methods and criteria:**  
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**  
pass / fail

**Person responsible:**  
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.
920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 - 01.08.2013
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](https://www3.oulu.fi/og/) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 - 01.08.2013
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opittelut:** Heli Ruotsalainen, Niina Timosaari-Hyry
**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoikuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction: English/Finnish

Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.


Mode of delivery: Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods: Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria: Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading: pass/fail

Person responsible: Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information: Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory “field-specific” studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement fot the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

470023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Process and Environmental Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

470001J: Process Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Field of Mechanical Engineering  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish
460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Field of Mechanical Engineering  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: Finnish

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.
Contents:
Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.
Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)
Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikko:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikko:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Voidaan suorittaa useasti?:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikko:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

**780614J: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Field of Chemistry  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish  
**Leikkaavuudet:**  
920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

**788610J: Ph.D. Thesis in Structural Chemistry, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Field of Chemistry  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

**920017J: First Follow-up Group Meeting, 0 op**

**Voimassaolo:** 01.01.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish  

**ECTS Credits:**  
1 ECTS  
**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.  
**Timing:** 
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.
Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coorninators of UniOGS.

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920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry
**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**
Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01  Research Plan and Seminar, Research Plan  3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate
School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U: Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
 obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakso(kuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories.
and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op
Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**

After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920014J: Midterm Report of Doctoral Training, 0 op**

**Voimassaajo:** 01.08.2013 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kiele:** Finnish

Ei opintojaksojokuvauksia.

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**920002J: Scientific Research and Ethics, 2 op**

**Voimassaajo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi

920020J: Acceptance and Grading of the Thesis, 0 op
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory “field-specific” studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Recommended or required reading:
Background literature of own research field.
Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

520023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

520001J: Electrical Engineering, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit  
Language of instruction:  
English  
Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:  
lectures, discussions and networking.

Learning activities and teaching methods:  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:  
Participation in lectures and discussions .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:  
pass/fail  

Person responsible:  
Coordinators of the University of Oulu Graduate School
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohsteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: http://www.oulu.fi/uniogs/node/42690
Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.
Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.
Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.
Mode of delivery:
Personal work, written presentation.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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**460023J: Research Plan and Seminar, Seminar, 1 op**

Voimassaolo: 01.08.2013 -  
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U: Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

92002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

| 920004J-01 | Research Plan and Seminar, Research Plan | 3.0 op |

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
522023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Electrical Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

522001J: Telecommunication Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Electrical Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kieleet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course

ECTS Credits:
ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**920012J: Doctoral Training Plan, 3 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course
**Research Plan and Seminar, Research Plan**

**Leikkaavuudet:**

920004J-01  Research Plan and Seminar, Research Plan  3.0 op

**Status:**
Obligatory "field-specific" studies

**ECTS Credits:**
3 credits

**Language of instruction:**
English (or other, when appropriate)

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

**Learning outcomes:**
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

**Mode of delivery:**
Personal work, written presentation.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Prerequisites and co-requisites:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee. The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.
920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

521023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.01.2010 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Computer Science and Engineering DP
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar  1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

521001J: Information Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Computer Science and Engineering DP
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and timeline of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative databases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; Health & social services (day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

**Contents:**

**Mode of delivery:**
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

**Learning activities and teaching methods:**
Online course (4 weeks), field-specific lectures (6 h.), Group work.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies
ECTS Credits:
3 credits
Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.
The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail
Person responsible:
920019J: Permission to defend the thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920018J: Pre-examination, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä
Ei opintojaksokuvauksia.

920021J: Research Group, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

550023J: Research Plan and Seminar, Seminar, 1 op
Voimassaolo: 01.01.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Field of Industrial Engineering and Management
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
   920004J-02 Research Plan and Seminar, seminar 1.0 op
Voidaan suorittaa useasti: Kyllä
Ei opintojaksokuvauksia.

550001J: Industrial Engineering and Management, thesis, 0 op
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; Health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

Assessment methods and criteria:
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

Other information:
Registration: Web-Oodi
920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Recommended or required reading:**
Background literature of own research field.

**Assessment methods and criteria:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**
pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee

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**920019J: Permission to defend the thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

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**920018J: Pre-examination, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish  
**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

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**920021J: Research Group, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish

Ei opintojaksokuvauksia.

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**460023J: Research Plan and Seminar, Seminar, 1 op**

**Voimassaolo:** 01.08.2013 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Field of Mechanical Engineering  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish
Leikkaavuudet:
920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Field of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives: Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.
Contents: Written and oral presentation reports and plans.
Learning activities and teaching methods: Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans. Read more about assessment criteria at the University of Oulu webpage.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920002J: Scientific Research and Ethics, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is able to recognise and analyse ethical problems relating to research. Student is also capable of formulating ethical research plans and responding to ethical challenges by applying key ethical theories and approaches. Furthermore, student understands the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review. Finally, student is able to identify rights and responsibilities as a researcher and understands how ethical decisions and choices influence society and research community.

Contents:
Ethical theory and ethical problem solving, Ethics in research planning, Conflict of interest, Data collection, Research licences and ethical review, Data management, Ethics and working with others, Research misconduct, Ethics and PhD supervision, Ethics and research funding, Plagiarism and misappropriation, Authorship and scientific publishing, Ethical problems characteristic to different sciences.

Mode of delivery:
Online-lectures, lectures. Link to the instructions: [http://www.oulu.fi/uniogs/node/42690](http://www.oulu.fi/uniogs/node/42690)

Learning activities and teaching methods:
Online course (4 weeks), field-specific lectures (6 h.), Group work.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize themselves with the guidelines for responsible conduct of research by the Finnish Advisory Board on Research Integrity.

**Assessment methods and criteria:**
Active engagement with the online course material, completion of compulsory assessment tasks, regular attendance of lectures.

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen (email: firstname.lastname (at) oulu.fi)

**Other information:**
Registration: Web-Oodi

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**920020J: Acceptance and Grading of the Thesis, 0 op**

- **Voimassaolo:** 01.08.2014 -
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Course
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

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**722010J: Business Theory and Thought, 6 op**

- **Voimassaolo:** 01.08.2015 -
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Course
- **Vastuuysikkö:** Oulu Business School
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** English
- **Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.
920012J: Doctoral Training Plan, 3 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:
Obligatory "field-specific" studies

ECTS Credits:
3 credits

Language of instruction:
English (or other, when appropriate)

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course during their first year of doctoral training. All part-time students must complete the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:
After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Doctoral Training Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee.

Mode of delivery:
Personal work, written presentation.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Prerequisites and co-requisites:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Recommended or required reading:
Background literature of own research field.

Assessment methods and criteria:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about assessment criteria at the University of Oulu webpage.

Grading:
pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920018J: Pre-examination, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**920021J: Research Group, 0 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**722001J: Research plan and seminar, seminar, 1 op**

Voimassaolo: 01.08.2013 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

**722790J: LOG, Doctoral dissertation, 0 - 180 op**

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.